

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA: US/08/501,572
APPLICATION NUMBER: US/08/501,572

FILING DATE:
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Noohy, Kimberlin M
REGISTRATION NUMBER: 35,391
REFERENCE/DOCKET INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)408-4000
TELEFAX: (202)408-4400
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 556 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-501-572-1

Query Match 12.1%; Score 169.5; DB 3; Length 556;
Best Local Similarity 20.5%; Pred. No. 8.9e-11;
Matches 77; Conservative 47; Mismatches 95; Indels 157; Gaps 15;

4 EELLISVGGIGRFO--MHLVFLIPSLMLIPHLLENFAAIPGRHC-----49
5 DVLAEVGEFGWFQKQAFLLCLISASLAPIYGVIFLGF--PGHYCONPGVAELSOR 61
Db 50 --VWHLMDNN--TSGNETGILSEDLALRISIPDLSNLRPEKCRFRVAPQWQLHLN 102
62 CGMSQAEELNYTVPGIGPDEASFLSQ--CMRYEV--DMNGSTLDC--VDP-----LS 108
Db 103 GTHTSTSEADTEPCVGVWYDOSYFPTITVKMDLVCDYOSLSKVQFLLTGMVGGII 162
109 SLVNRSQLPLGPEHGWYDTP--GSSIVTEFNLCGDAMKVDLFQSCVNLGFFLGSLV 166
Db 163 GGHVSDR-----169
167 VGIADRFGRKCLVTLTVSVSGVLTAVADYTSMLFRLLQGVSKGWSGYTLIT 226
Db 170 -----WLV-ES 174
QY 227 EFVGSYRRTAILYQMAFTYGVLAGVAVAIIPDMRWLQLAVSLPTFLFLYYWFPES 286
Db 175 ARMLITNKLDEGLAKRKVARTNG-INKAEETINIEVVRSTMOEELDAQTKT-TVCDL 232
QY 287 PRWLSQKRTTRAVRIMEQIAQKNGKVPAD-----LKNLCLEB-DASEKRSPPADL 338
Db 233 FRNPSMRKRICIIVFL 248
QY 339 FRTPNLRKHTVILMYL 354
Db

RESULT 5
US-09-040-444-1
Sequence 1. Application US/09040444
Patent No. 6063766
GENERAL INFORMATION:
APPLICANT: Koepsell, Hermann
APPLICANT: Grudemann, Dirk
TITLE OF INVENTION: Transport of cationic xenobiotics and/or pharmaceuticals.
TITLE OF INVENTION: Transport of cationic xenobiotics and/or pharmaceuticals.
TITLE OF INVENTION: DNA Sequences Encoding It And Their Use.
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.
STREET: 1300 I Street, N.W., Suite 700
CITY: Washington

STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA: US/09/040,444
APPLICATION NUMBER: US/09/040,444
FILING DATE: March 18, 1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: O'Connor, Steven P
REGISTRATION NUMBER: 41,225
REFERENCE/DOCKET INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)408-4000
TELEFAX: (202)408-4400
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 556 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-040-444-1

Query Match 12.1%; Score 169.5; DB 3; Length 556;
Best Local Similarity 20.5%; Pred. No. 8.9e-11;
Matches 77; Conservative 47; Mismatches 95; Indels 157; Gaps 15;

4 EELLISVGGIGRFO--MHLVFLIPSLMLIPHLLENFAAIPGRHC-----49
5 DVLAEVGEFGWFQKQAFLLCLISASLAPIYGVIFLGF--PGHYCONPGVAELSOR 61
Db 50 --VWHLMDNN--TSGNETGILSEDLALRISIPDLSNLRPEKCRFRVAPQWQLHLN 102
62 CGMSQAEELNYTVPGIGPDEASFLSQ--CMRYEV--DMNGSTLDC--VDP-----LS 108
Db 103 GTHTSTSEADTEPCVGVWYDOSYFPTITVKMDLVCDYOSLSKVQFLLTGMVGGII 162
109 SLVNRSQLPLGPEHGWYDTP--GSSIVTEFNLCGDAMKVDLFQSCVNLGFFLGSLV 166
Db 163 GGHVSDR-----169
167 VGIADRFGRKCLVTLTVSVSGVLTAVADYTSMLFRLLQGVSKGWSGYTLIT 226
Db 170 -----WLV-ES 174
QY 227 EFVGSYRRTAILYQMAFTYGVLAGVAVAIIPDMRWLQLAVSLPTFLFLYYWFPES 286
Db 175 ARMLITNKLDEGLAKRKVARTNG-INKAEETINIEVVRSTMOEELDAQTKT-TVCDL 232
QY 287 PRWLSQKRTTRAVRIMEQIAQKNGKVPAD-----LKNLCLEB-DASEKRSPPADL 338
Db 233 FRNPSMRKRICIIVFL 248
QY 339 FRTPNLRKHTVILMYL 354
Db

RESULT 6
US-08-501-572-3
Sequence 3. Application US/08501572
Patent No. 6063623
GENERAL INFORMATION:
APPLICANT: Koepsell, Hermann
APPLICANT: Grudemann, Dirk
TITLE OF INVENTION: Transport of cationic xenobiotics and/or pharmaceuticals.
TITLE OF INVENTION: Transport of cationic xenobiotics and/or pharmaceuticals.
TITLE OF INVENTION: DNA Sequences Encoding It And Their Use.
NUMBER OF SEQUENCES: 6

; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner
 ; STREET: 1300 I Street, N.W., Suite 700
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: USA
 ; ZIP: 20005-3315
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/501,572
 ; FILING DATE:
 ; CLASSIFICATION: 424
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Toohy, Kimberlin M
 ; REGISTRATION NUMBER: 35,391
 ; REFERENCE/DOCKET NUMBER: 02481.1453-00000
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202)408-4400
 ; TELEFAX: (202)408-4400
 ; INFORMATION FOR SEQ ID NO: 3:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 555 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; US-08-501-572-3

Query Match 10.8%; Score 152.5; DB 3; Length 555;
 Best Local Similarity 19.8%; Pred. No. 8e-09;
 Matches 71; Conservative 40; Mismatches 109; Indels 139; Gaps 12;
 QY 11 GGLGRFQMLHLVFLPSLMLLPHILLE-NFAAAIPGHRG---WVHMLDNNTGSGNETGI 66
 Db 12 GGEHFHFQMFELALLSATFAPYVGVFLGTFDHRCSRSPGVAELSLRCG----- 64
 QY 67 LSEDALLRISIP---LDSNLRPEKRRFVHPQWQLHLNGTHISTSEADTE-----PC 116
 Db 65 WSPAEELNYTVPGPGPAGEASPRQCRRY-EVDWQSTFD-CVDPLASLDNRSRLPLGPC 122
 QY 117 VDGWYDQSYFSTTIVTKWDLVCDYQSLKSVVQFLLTGMVLGGIIGHVSDR----- 169
 Db 123 RDGWYETP---GSSIVTEFNLVCANSMWLDLFQSSVNVGFFIGSMISIGYIADRFGRKLC 180
 QY 170 -----WLTV----- 172
 Db 181 LTTVLINAAAGVLMASFTYTWMLIFRLIOGLVSKAGWLGILITEFVGGRYRTVGIF 240
 QY 173 -----ESARWLIITNKLEGL 188
 Db 241 YQVAYTVGLLVAGVAYALPHWRWLOFTVALPNFFFLYYWCIPESPRWLISQNKNAEAM 300
 QY 189 KALRKVARTNGIKNAEETLNIEVVRSTMQBELDAAQTCTVCDLFRNPSMRKRICILVF 247
 Db 301 RIHKHAKKNG-----KSLPASLQRLRLEE-TGKKLPNSFLDLVTRTPQIRKHTMILMY 353

RESULT 7
 ; US-09-040-444-3
 ; Sequence 3, Application US/09040444
 ; Patent No. 6063766
 ; GENERAL INFORMATION:
 ; APPLICANT: Koepsell, Hermann
 ; APPLICANT: Grundeman, Dirk
 ; APPLICANT: Gorboulev, Valentin
 ; TITLE OF INVENTION: Transport protein which effects the
 ; TITLE OF INVENTION: Transport of cationic xenobiotics and/or pharmaceuticals,
 ; NUMBER OF SEQUENCES: 6

; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.
 ; STREET: 1300 I Street, N.W., Suite 700
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: USA
 ; ZIP: 20005-3315
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/040,444
 ; FILING DATE: March 18, 1998
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: O'Connor, Steven P
 ; REGISTRATION NUMBER: 41,225
 ; REFERENCE/DOCKET NUMBER: 2481.1453-01
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202)408-4000
 ; TELEFAX: (202)408-4400
 ; INFORMATION FOR SEQ ID NO: 3:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 555 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; US-09-040-444-3

Query Match 10.8%; Score 152.5; DB 3; Length 555;
 Best Local Similarity 19.8%; Pred. No. 8e-09;
 Matches 71; Conservative 40; Mismatches 109; Indels 139; Gaps 12;
 QY 11 GGLGRFQMLHLVFLPSLMLLPHILLE-NFAAAIPGHRG---WVHMLDNNTGSGNETGI 66
 Db 12 GGEHFHFQMFELALLSATFAPYVGVFLGTFDHRCSRSPGVAELSLRCG----- 64
 QY 67 LSEDALLRISIP---LDSNLRPEKRRFVHPQWQLHLNGTHISTSEADTE-----PC 116
 Db 65 WSPAEELNYTVPGPGPAGEASPRQCRRY-EVDWQSTFD-CVDPLASLDNRSRLPLGPC 122
 QY 117 VDGWYDQSYFSTTIVTKWDLVCDYQSLKSVVQFLLTGMVLGGIIGHVSDR----- 169
 Db 123 RDGWYETP---GSSIVTEFNLVCANSMWLDLFQSSVNVGFFIGSMISIGYIADRFGRKLC 180
 QY 170 -----WLTV----- 172
 Db 181 LTTVLINAAAGVLMASFTYTWMLIFRLIOGLVSKAGWLGILITEFVGGRYRTVGIF 240
 QY 173 -----ESARWLIITNKLEGL 188
 Db 241 YQVAYTVGLLVAGVAYALPHWRWLOFTVALPNFFFLYYWCIPESPRWLISQNKNAEAM 300
 QY 189 KALRKVARTNGIKNAEETLNIEVVRSTMQBELDAAQTCTVCDLFRNPSMRKRICILVF 247
 Db 301 RIHKHAKKNG-----KSLPASLQRLRLEE-TGKKLPNSFLDLVTRTPQIRKHTMILMY 353

RESULT 8
 ; US-08-501-572-2
 ; Sequence 2, Application US/08501572
 ; Patent No. 6063623
 ; GENERAL INFORMATION:
 ; APPLICANT: Koepsell, Hermann
 ; APPLICANT: Grundeman, Dirk
 ; APPLICANT: Gorboulev, Valentin
 ; TITLE OF INVENTION: Transport protein which effects the
 ; TITLE OF INVENTION: Transport of cationic xenobiotics and/or pharmaceuticals,
 ; NUMBER OF SEQUENCES: 6

CORRESPONDENCE ADDRESS:
ADDRESSEE: Finegan, Henderson, Farabow, Garrett & Dunner
STREET: 1300 I Street, N.W., Suite 700
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315

COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/501,572
FILING DATE:
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Toohey, Kimberlin M
REGISTRATION NUMBER: 35,391
REFERENCE/DOCKET NUMBER: 02481.1453-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)408-4400
TELEFAX: (202)408-4400
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 553 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide

US-08-501-572-2
Query Match 10.4%; Score 146; DB 3; Length 553;
Best Local Similarity 20.4%; Pred. No. 4,5e-08;
Matches 75; Conservative 34; Mismatches 117; Indels 142; Gaps 11;

QY 4 ELLSQVGGGRFQMLHVLFLPSIMLLPHILLNFPAALPGHRC---WYMLDNNNGS 60
DB 5 DDLEQVGGSGWFKQAFILICLSAFAFICVIGVFLGFTPHHCQSPGVABLSQRCG- 63
QY 61 GNETHILSEDALEIRISIPDSNLRPE-----KCRPFVHQWOLHLN-----GTIHST 108
DB 64 -----WSPAEELNVTVP---GLGPAGEAFLGQCRRY-EVDNQSALSCVDPPLASLATNR 113
QY 109 SEADTEPCVDGWNVQOSFFPSTIVTKMDLVCDYQSLKSVVQFLITGMVGGIIGHVSD 168
DB 114 SHLPGLPCQDGNVDTLP--GSSIVTEFNLVCADSWKLDLFQSCINAGFFPGLGVGFAD 171
QY 169 R----- 169
DB 172 RFGKRLCLLGTVLVNAVSGVLMAFSPNYSMLLFRLLQGLVSKGNMAGYTLITEPVSSG 231
QY 170 -----WLV-ESARMLII 180
DB 232 SRRVTAIMQMAFTVGVALTGLAYALPHRMWLOLAVSLPTEFLFLYWCVESESRWLLS 291
QY 181 TNKLDGKALKRKVARTNGIKNAEETLINEVVRSTWQEBLDAQRTTVCDLFRNPSMRK 240
DB 292 QKRNTTEAIKIMDHIAQKNG-KLPPADLKMLSLBEDVTEKL-----SPSFADLFRTPRLRK 345
QY 241 RLCILVFL 248
DB 346 RFLIMYL 353

RESULT 9
US-09-040-444-2
Sequence 2, Application US/0904044
Patent No. 6063766
GENERAL INFORMATION:
APPLICANT: Koepsell, Hermann
APPLICANT: Grudeman, Dirk
APPLICANT: Gordoulev, Valentin

TITLE OF INVENTION: Transport Protein Which Effects The
TITLE OF INVENTION: Transport of Cationic Xenobiotics and/or Pharmaceuticals,
TITLE OF INVENTION: DNA Sequences Encoding It And Their Use.
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finegan, Henderson, Farabow, Garrett & Dunner, L.L.P.
STREET: 1300 I Street, N.W., Suite 700
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315

COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/040,444
FILING DATE: March 18, 1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: O'Connor, Steven P
REGISTRATION NUMBER: 41,225
REFERENCE/DOCKET NUMBER: 2481.1453-01
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)408-4400
TELEFAX: (202)408-4400
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 553 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide

US-09-040-444-2

Query Match 10.4%; Score 146; DB 3; Length 553;
Best Local Similarity 20.4%; Pred. No. 4,5e-08;
Matches 75; Conservative 34; Mismatches 117; Indels 142; Gaps 11;

QY 4 ELLSQVGGGRFQMLHVLFLPSIMLLPHILLNFPAALPGHRC---WYMLDNNNGS 60
DB 5 DDLEQVGGSGWFKQAFILICLSAFAFICVIGVFLGFTPHHCQSPGVABLSQRCG- 63
QY 61 GNETHILSEDALEIRISIPDSNLRPE-----KCRPFVHQWOLHLN-----GTIHST 108
DB 64 -----WSPAEELNVTVP---GLGPAGEAFLGQCRRY-EVDNQSALSCVDPPLASLATNR 113
QY 109 SEADTEPCVDGWNVQOSFFPSTIVTKMDLVCDYQSLKSVVQFLITGMVGGIIGHVSD 168
DB 114 SHLPGLPCQDGNVDTLP--GSSIVTEFNLVCADSWKLDLFQSCINAGFFPGLGVGFAD 171
QY 169 R----- 169
DB 172 RFGKRLCLLGTVLVNAVSGVLMAFSPNYSMLLFRLLQGLVSKGNMAGYTLITEPVSSG 231
QY 170 -----WLV-ESARMLII 180
DB 232 SRRVTAIMQMAFTVGVALTGLAYALPHRMWLOLAVSLPTEFLFLYWCVESESRWLLS 291
QY 181 TNKLDGKALKRKVARTNGIKNAEETLINEVVRSTWQEBLDAQRTTVCDLFRNPSMRK 240
DB 292 QKRNTTEAIKIMDHIAQKNG-KLPPADLKMLSLBEDVTEKL-----SPSFADLFRTPRLRK 345
QY 241 RLCILVFL 248
DB 346 RFLIMYL 353

RESULT 10
US-09-964-127-2
Sequence 2, Application US/08964127
Patent No. 6277565

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; GENERAL INFORMATION:
; APPLICANT: Grandearl, Andrew David John
; TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE
; MOLECULES
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSeq for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/964,127
; FILING DATE: 06-NOV-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Crews, Ph.D., L. Lee
; REGISTRATION NUMBER: P-43,567
; REFERENCE/DOCKET NUMBER: 07334/038001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 520 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
; US-08-964-127-2

```

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Query Match      7.4%; Score 104; DB 4; Length 520;
Best Local Similarity 18.2%; Pred. No. 0.0028;
Matches 64; Conservative 33; Mismatches 92; Indels 162; Gaps 14;

QY 39 NFAAAIPGHCWVHMLDNTSGNETGILSDALLRISIPLDNSLRPEKRRFVHPQWL 98
Db 16 HYGAFFPNASGW-EQPPNAGSVASAAALAAASRAVATSTDPS-----CSGFAPP 65
QY 99 LHLNGTIHSTSEADTEPCVCGWYD-QSYFPSTIVTKWDLVCD--YQSLKSVVQFL 152
Db 66 -----DFNHCLKWDYNGLPVLTNTAIGQWDLVCDLQWVILEQILFLGFA 112
QY 153 -----LTMGLVGGT----- 161
Db 113 SGYLFGLYPADRGRRGIVLLTLGLVPCGCGVGAAGSSTGWMALRFLGLAGVDLGV 172
QY 162 -----VSDRW----- 170
Db 173 YLMRLELCDPTQRLRVALAGELVGVGGHFLGLALVSKDWRFLQRMITAPCILFLFYCW 232
QY 171 ----LVESARWLIITNKLDEGLKALKRKVARTNGIKNAEETLNIEVVRSTWQELDAAQTKT 227
Db 233 PGLFLESARWLVKQIEAQSVLRLAERN--RPHGQMLG-----EQAQALQDLE 282
QY 228 TVCDL-----FRNPSMRKRICILVFLRKKSIRKHKNDCTYKV 265
Db 283 NTCPLPATSPFSFASLLNRYN--IWKNLILGFTNFIAHAIRH---CYQPV 328

RESULT 11
US-09-496-692-2
; Sequence 2, Application US/09496692
; Patent No. 6313271

```

```

; GENERAL INFORMATION:
; APPLICANT: Grandearl, Andrew David John
; TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE
; MOLECULES
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSeq for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/496,692
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/964,127
; FILING DATE: 06-NOV-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Crews, Ph.D., L. Lee
; REGISTRATION NUMBER: P-43,567
; REFERENCE/DOCKET NUMBER: 07334/038001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 520 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
; US-09-496-692-2

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```

Query Match      7.4%; Score 104; DB 4; Length 520;
Best Local Similarity 18.2%; Pred. No. 0.0028;
Matches 64; Conservative 33; Mismatches 92; Indels 162; Gaps 14;

QY 39 NFAAAIPGHCWVHMLDNTSGNETGILSDALLRISIPLDNSLRPEKRRFVHPQWL 98
Db 16 HYGAFFPNASGW-EQPPNAGSVASAAALAAASRAVATSTDPS-----CSGFAPP 65
QY 99 LHLNGTIHSTSEADTEPCVCGWYD-QSYFPSTIVTKWDLVCD--YQSLKSVVQFL 152
Db 66 -----DFNHCLKWDYNGLPVLTNTAIGQWDLVCDLQWVILEQILFLGFA 112
QY 153 -----LTMGLVGGI----- 161
Db 113 SGYLFGLYPADRGRRGIVLLTLGLVPCGCGVGAAGSSTGWMALRFLGLAGVDLGV 172
QY 162 -----VSDRW----- 170
Db 173 YLMRLELCDPTQRLRVALAGELVGVGGHFLGLALVSKDWRFLQRMITAPCILFLFYCW 232
QY 171 ----LVESARWLIITNKLDEGLKALKRKVARTNGIKNAEETLNIEVVRSTWQELDAAQTKT 227
Db 233 PGLFLESARWLVKQIEAQSVLRLAERN--RPHGQMLG-----EQAQALQDLE 282
QY 228 TVCDL-----FRNPSMRKRICILVFLRKKSIRKHKNDCTYKV 265
Db 283 NTCPLPATSPFSFASLLNRYN--IWKNLILGFTNFIAHAIRH---CYQPV 328

RESULT 12
US-08-928-692-12
; Sequence 12, Application US/08928692
; Patent No. 5958729

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GENERAL INFORMATION:
APPLICANT: Brody, Howard
APPLICANT: Yaver, Deborah S.
APPLICANT: Lamsa, Michael
APPLICANT: Hansen, Kim
TITLE OF INVENTION: Methods for Modifying the Production of
TITLE OF INVENTION: a Polypeptide
NUMBER OF SEQUENCES: 80
CORRESPONDENCE ADDRESS:
ADDRESS: No. 59587270 No. 5958727disk of No. 5958727ch America, Inc.
STREET: 405 Lexington Avenue
CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10174
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/928,692
FILING DATE: 12-SEPT-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4944-200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 524 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: No. 5958727e
US-08-928-692-12

Query Match          7.1%; Score 100; DB 2; Length 524;
Best Local Similarity 27.6%; Pred. No. 0.0082;
Matches    35; Conservative   22; Mismatches    34; Indels     36; Gaps      6

QY  149 QELLTGLTVGGIIG-----GHVSDRMVLV-----ESARMLITNK 183
       |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB  193 QLAIVTGILISQIHGEFLIGNY-DIMHILLGSGVAIIQLSLLFPCPSRPLYI--K 249
QY  184 IDEGLKALKRKARTNICKAAEELINEVASTVOEELDA--QTKTVCDLFRNPMSRX 241
       |||||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB  250 LDDEVAKSKSLKRIRGVDDVTXKIDN-----EMRKEREASSEQKVSIIQLFTNSSYRP 303
QY  242 ICILVPL 248
       |::|::|
DB  304 ILVALML 310

RESULT 13
US-09-339-972-12
Sequence 12, Application US/09339972
Patent No. 6323002
GENERAL INFORMATION:
APPLICANT: Brody, Howard
APPLICANT: Yaver, Deborah S.
APPLICANT: Lamsa, Michael
APPLICANT: Hansen, Kim
TITLE OF INVENTION: Methods for Modifying the Production of
TITLE OF INVENTION: a Polypeptide
NUMBER OF SEQUENCES: 80
CORRESPONDENCE ADDRESS:
ADDRESS: No. 6323002o No. 6323002disk of No. 6323002th America, Inc.
STREET: 405 Lexington Avenue
CITY: New York

```

[illegible]

APPLICATION NUMBER:

FILING DATE: 06-NOV-1997
ATTORNEY/AGENT INFORMATION:
NAME: Crews, Ph.D., L. Lee
REGISTRATION NUMBER: P-43,567
REFERENCE/DOCKET NUMBER: 07334/038001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 286 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
US-08-964-127-4

Query Match 7.0%; Score 98.5; DB 4; Length 286;
Best Local Similarity 17.8%; Pred. No. 0.0049;
Matches 54; Conservative 29; Mismatches 73; Indels 147; Gaps 11;

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Db 16 HYGAFPNASGW-EQPPNAGSVSVASALAASASRVATSTDPs-----CSGFAPP----- 65
QY 99 LHLNGTIHSTSEADTEPCVDGWVYD-QSYFPSTIVTKWDLVCD--YQSLKSVVQFLL--- 152
Db 66 -----DFNHCLKDWDYNGLPVLTNTAIGQWDLVCDLQWQVILEQILFILGFA 112
QY 153 -----LTGMLVGGI----- 161
Db 113 SGYFLGYPADRFRRGIVLLTLGLVPGCGVGGAAAGSSTGVMAIRFLILGFLLAGVDLGV 172
QY 162 -----IGGH-----VSDRW----- 170
Db 173 YLMRLCLDPTQRLRVALAGELVGVGGHFLFLGLALVSKDWRFLORMITAPCILFLFYGW 232
QY 171 ----LVESARWLIITNKLDEGLKALRKA---RTNGIKNAEETLNIEVVRSTMQEELDAAQ 224
Db 233 PGLFLESARWLIIVKQIEEAQSVLRILAERNRPHGQMLGEEA-----QEALQDLE 282
QY 225 TKT 227
Db 283 SST 285

RESULT 15

US-09-496-692-4

Sequence 4, Application US/09496692

Patent No. 6313271

GENERAL INFORMATION:

APPLICANT: Grandearl, Andrew David John

TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE

TITLE OF INVENTION: MOLECULES

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson P.C.

STREET: 225 Franklin Street

CITY: Boston

STATE: MA

COUNTRY: USA

ZIP: 02110-2804

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows 95

SOFTWARE: FastSeq for Windows Version 2.0b

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09496,692

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/964,127

FILING DATE: 06-NOV-1997
ATTORNEY/AGENT INFORMATION:
NAME: Crews, Ph.D., L. Lee
REGISTRATION NUMBER: P-43,567
REFERENCE/DOCKET NUMBER: 07334/038001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 286 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
US-09-496-692-4

Query Match 7.0%; Score 98.5; DB 4; Length 286;
Best Local Similarity 17.8%; Pred. No. 0.0049;
Matches 54; Conservative 29; Mismatches 73; Indels 147; Gaps 11;

QY 39 NFAAAIPGHRCHVHMLDNTGNETGILSEDALLRISIPLDLSNLRPEKCRFRFVHPQWQL 98
Db 16 HYGAFPNASGW-EQPPNAGSVSVASALAASASRVATSTDPs-----CSGFAPP----- 65
QY 99 LHLNGTIHSTSEADTEPCVDGWVYD-QSYFPSTIVTKWDLVCD--YQSLKSVVQFLL--- 152
Db 66 -----DFNHCLKDWDYNGLPVLTNTAIGQWDLVCDLQWQVILEQILFILGFA 112
QY 153 -----LTGMLVGGI----- 161
Db 113 SGYFLGYPADRFRRGIVLLTLGLVPGCGVGGAAAGSSTGVMAIRFLILGFLLAGVDLGV 172
QY 162 -----IGGH-----VSDRW----- 170
Db 173 YLMRLCLDPTQRLRVALAGELVGVGGHFLFLGLALVSKDWRFLORMITAPCILFLFYGW 232
QY 171 ----LVESARWLIITNKLDEGLKALRKA---RTNGIKNAEETLNIEVVRSTMQEELDAAQ 224
Db 233 PGLFLESARWLIIVKQIEEAQSVLRILAERNRPHGQMLGEEA-----QEALQDLE 282
QY 225 TKT 227
Db 283 SST 285

Search completed: January 6, 2003, 22:51:39

Job time : 23 secs

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: January 6, 2003, 22:48:58
(without alignments)
317.438 Million cell updates/sec

Title: US-09-674-235-1
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Perfect score: 1 MAFELLISQVGGIGRFGWLH.....RKISRRKKNKDYTKYTKF 268
Sequence: BLOSUM62
Gapop 10.0, Gapext 0.5

Scoring table: BLOSUM62

Searched: 117078 seqs, 18951520 residues

Total number of hits satisfying chosen parameters: 117078

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: Published Applications, AA:*

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- 2: /cgn2_6/prodata/2/pubpaa/PCF_NEW_PUB.pep.*
- 3: /cgn2_6/prodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/prodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/prodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/prodata/2/pubpaa/PCFUS_PUBCOMB.pep.*
- 7: /cgn2_6/prodata/2/pubpaa/US08_PUBCOMB.pep.*
- 8: /cgn2_6/prodata/2/pubpaa/US09_PUBCOMB.pep.*
- 9: /cgn2_6/prodata/2/pubpaa/US09_NEW_PUB.pep.*
- 10: /cgn2_6/prodata/2/pubpaa/US10_PUBCOMB.pep.*
- 11: /cgn2_6/prodata/2/pubpaa/US10_NEW_PUB.pep.*
- 12: /cgn2_6/prodata/2/pubpaa/US60_PUBCOMB.pep.*
- 13: /cgn2_6/prodata/2/pubpaa/US60_NEW_PUB.pep.*
- 14: /cgn2_6/prodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	600	42.7	553	US-10-095-139-5	Sequence 5, Appli
2	592	42.1	550	US-10-095-139-16	Sequence 16, Appli
3	551	39.2	553	US-10-095-139-17	Sequence 17, Appli
4	344	24.5	113	US-09-864-761-42488	Sequence 42488, A
5	216.5	15.4	557	US-09-798-743A-3	Sequence 3, Appli
6	193.5	13.8	557	US-09-798-743A-1	Sequence 1, Appli
7	174	12.4	101	US-10-050-786-8	Sequence 8, Appli
8	160	11.4	44	US-10-095-139-15	Sequence 15, Appli
9	104	7.4	520	US-10-000-273-2	Sequence 2, Appli
10	98.5	7.0	286	US-10-000-273-4	Sequence 4, Appli
11	93	6.6	81	US-09-864-761-46676	Sequence 46676, A
12	90.5	6.4	486	US-10-095-139-7	Sequence 7, Appli
13	90.5	6.4	487	US-10-095-139-14	Sequence 14, Appli
14	90.5	6.4	487	US-09-795-693-27	Sequence 27, Appli
15	90.5	6.4	535	US-09-795-693-20	Sequence 20, Appli
16	90	6.4	537	US-10-155-891-2	Sequence 2, Appli
17	89.5	6.4	488	US-10-094-059-4	Sequence 4, Appli
18	86	6.1	366	US-09-349-015-35	Sequence 35, Appli
19	83.5	5.9	494	US-09-981-947A-5	Sequence 5, Appli

20	83	5.9	406	US-09-925-297-726	Sequence 726, App
21	82.5	5.9	572	US-09-919-781-2	Sequence 2, Appli
22	82	5.8	441	US-09-778-927A-51	Sequence 51, Appli
23	82	5.8	455	US-09-778-927A-50	Sequence 50, Appli
24	82	5.8	471	US-09-778-927A-47	Sequence 47, Appli
25	82	5.8	471	US-09-778-927A-49	Sequence 49, Appli
26	82	5.8	501	US-09-778-927A-48	Sequence 48, Appli
27	81.5	5.8	523	US-10-051-902-24	Sequence 24, Appli
28	81.5	5.8	323	US-10-051-902-24	Sequence 24, Appli
29	80.5	5.7	323	US-09-972-912-3	Sequence 3, Appli
30	80.5	5.7	325	US-09-804-357-10	Sequence 10, Appli
31	80.5	5.7	325	US-09-804-357-10	Sequence 5, Appli
32	80.5	5.7	325	US-09-739-451-5	Sequence 10, Appli
33	80.5	5.7	453	US-09-804-006-10	Sequence 4277, Ap
34	79	5.6	660	US-09-738-626-4277	Sequence 5470, Ap
35	79	5.6	664	US-09-815-242-5470	Sequence 12179, A
36	78.5	5.6	476	US-10-155-891-4	Sequence 4, Appli
37	78	5.5	574	US-09-925-502-6	Sequence 6, Appli
38	76.5	5.4	1642	US-09-925-442-2	Sequence 2, Appli
39	76.5	5.4	1648	US-09-925-442-35	Sequence 35, Appli
40	76	5.4	314	US-09-867-550-1240	Sequence 1240, Ap
41	76	5.4	1203	US-09-990-046-2	Sequence 2, Appli
42	75.5	5.4	1203	US-09-909-280A-2	Sequence 2, Appli
43	75.5	5.4	209	US-10-108-915-30	Sequence 30, Appli
44	75.5	5.4	436	US-09-922-501-8	Sequence 8, Appli
45	75	5.3	526	US-10-024-623-30	Sequence 30, Appli

ALIGNMENTS

RESULT 1
US-10-095-139-5
Sequence 5, Application US/10095139
Patient No. US2002016537A1
GENERAL INFORMATION:
APPLICANT: Curtiss, Rory A.J.
APPLICANT: Millen-Santiago, Immaculada
APPLICANT: Millennium Pharmaceuticals, Inc.
TITLE OF INVENTION: 38554, 57301, and 58324, Human Organic
TITLE OF INVENTION: Ion Transporters and Uses Therefor
FILE REFERENCE: MP101-01PIRNM
CURRENT FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US/10/095, 139
PRIOR FILING DATE: 2001-03-12
NUMBER OF SEQ ID NOS: 24
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 5
LENGTH: 553
TYPE: PRT
ORGANISM: homo sapiens
FEATURE:
OTHER INFORMATION: unknown amino acids at 200-202
NAME/KEY: VARIANT
LOCATION: (1) (553)
OTHER INFORMATION: Xaa = Any Amino Acid
US-10-095-139-5

Query Match
Best Local Similarity 37.8%; Pred. No. 1.5e-53;
Matches 133; Conservative 30; Mismatches 81; Indels 108; Gaps 1;
Query 1 MAFELLISQVGGIGRFGWLH.....RKISRRKKNKDYTKYTKF 60
1 MAFELLISQVGGIGRFGWLH.....RKISRRKKNKDYTKYTKF 60
61 GNETGLISEDALRISPLDSNLRPEKRRFVHPQWOLHNGTISTSRADPEPCDGM 120
61 ASILGSPSPALLAISIPPEPNQRPQCRRFROPQWOLDPNATATSWSEADTEPCDGM 120
62 VYDQSPSTIVTKWLDVQYQSIXSVVQFLLLTGMVGIGIGVDR----- 169

Db 121 VYDRSFTSTIVAKWNLVCDSHALKPMAQSIYLAGILVGAACGPASDRFGRRLVLTWSY 180
QY 170 ----- 169
Db 181 LQNAVMTAAAFAPAFVYXXRFLAFHAGABPLGLAVMEWTAARPLVMTLSLG 240
QY 170 -----WLVESARWLIITNKLDGLKALR 192
Db 241 FSPGHGLTAAYAGVRDWTLLQLVSVFPFLCLFYSWLAESARWLIITNGLDWGLQELW 300
QY 193 KVARTNGIKNAEETLNIEVVRSTMOEELDAAQTKTTCVDFRNPSMRKRICI 244
Db 301 RVAPINGKGAQVDTLPEVLLSAMRELSMGQPPASIGTLIRMEGLRFRICI 352

RESULT 2

US-10-095-139-16
; Sequence 16, Application US/10095139
; Patent No. US20020165357A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Roly A.J.
; APPLICANT: Silos-Santiago, Inmaculada
; TITLE OF INVENTION: 38554, 57301, and 58324, Human Organic
; TITLE OF INVENTION: Ion Transporters and Uses Therefor
; FILE REFERENCE: MPI01-017P1RNM
; CURRENT APPLICATION NUMBER: US/10/095,139
; CURRENT FILING DATE: 2002-03-11
; PRIOR FILING DATE: 2001-03-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 550
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-095-139-16

Query Match 42.1%; Score 592; DB 9; Length 550;
Best Local Similarity 40.2%; Pred. No. 9.6e-53;
Matches 143; Conservative 28; Mismatches 69; Indels 116; Gaps 7;

QY 1 MAFEEELLSQVGLGRFQMLH-LVFILPSLMLLIP-HILLENFAAAIPGHRCWVHMLDNT 58
Db 1 MAFKLEQAGGVGLFTQLVLTILFCLM--IFSQMLLENFSAAPGHRCWVHMLDNT 56
QY 59 GSGNETGILSEDALLRISIPDSNLRPEKRRFVHPQWOLLHLNGTIHSTSEADTEPCVD 118
Db 57 GSAVSTN-MTPKALLTISIPPGNQGHQCRFPQWOLLDPNATATSWSEADTEPCVD 115
QY 119 GWYDQSYFPSTIVTKWDLVCDYQSLKSVVQFLLLTGMLVGGIIGGHVSDR 169
Db 116 GWYDRSVFTSTIVAKWDLVCSQGLKPLSQSIFMSGILVGSFIWGLLSYRFGKPKMLSW 175
QY 170 ----- 169
Db 176 CCLQLAVAGTSTIFATFVYCYGLRFVAFMGAGIFLSSITLWVETTTTERRAVTMTVVG 235
QY 170 -----WLVESARWLIITNKLDGLKA 190
Db 236 CAFSAQAALGGLAFALRDWRITLQAASVPFFAISLISWMLPESARWLIITKGPDAQLOE 295
QY 191 LRKVARTNGIKNAEETLNIEVVRSTMOEELDAAQTKTTCVDFRNPSMRKRICILV 246
Db 296 LRKVARTNGIKNAEETLNIEVVRSTMOEELDAAQTKTTCVDFRNPSMRKRICILV 246

RESULT 3

US-10-095-139-17
; Sequence 17, Application US/10095139
; Patent No. US20020165357A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Roly A.J.

; APPLICANT: Silos-Santiago, Inmaculada
; APPLICANT: Millennium Pharmaceuticals, Inc.
; TITLE OF INVENTION: 38554, 57301, and 58324, Human Organic
; TITLE OF INVENTION: Ion Transporters and Uses Therefor
; FILE REFERENCE: MPI01-017P1RNM
; CURRENT APPLICATION NUMBER: US/10/095,139
; CURRENT FILING DATE: 2002-03-11
; PRIOR FILING DATE: 2001-03-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-095-139-17

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Best Local Similarity 34.1%; Pred. No. 1.6e-48;
Matches 120; Conservative 38; Mismatches 86; Indels 108; Gaps 1;

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Db 1 MAFPELLDRVGLGRFQMLH-LVFILPSLMLLIP-HILLENFAAAIPGHRCWVHMLDNTGS 60
QY 61 GNETGILSEDALLRISIPDSNLRPEKRRFVHPQWOLLHLNGTIHSTSEADTEPCVDGW 120
Db 61 ASIPGDLGPDVLLAVSIPPGDQPHOCLRPQWOLTESNATATMSDAATEPCEDGW 120
QY 121 VYDQSYFPSTIVTKWDLVCDYQSLKSVVQFLLLTGMLVGGIIGGHVSDR 169
Db 121 VYDHSTFRSTIVTKWDLVCDYQSLKSVVQFLLLTGMLVGGIIGGHVSDR 180
QY 170 ----- 169
Db 181 LLVSVSGTAAAFMPTFPLYCLFRFLASAVAGVMMNTASLLMEWTSAGSPLVMTLNALG 240
QY 170 -----WLVESARWLIITNKLDGLKALR 192
Db 241 FSGQVLTGSVAVGVRSMRLQLAVSAPFFLPFVYSWMLPESARWLIITVCKLQGLQELQ 300
QY 193 KVARTNGIKNAEETLNIEVVRSTMOEELDAAQTKTTCVDFRNPSMRKRICI 244
Db 301 RVAAVNRKAEQDTTMEVIRSAMBEPSRDRKAGASLGTLTTPGLRHRTII 352

RESULT 4

US-09-864-761-42488
; Sequence 42488, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667

[illegible]


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Qy 99 LHLNGTHTHSSEADTEPCVGVWYVD-QSYPSTIVTKMDLVCD--YQSLKSVQVFLF-- 152
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Qy 153 -----LTGMVYGGT----- 161
Db 113 SGYLFLLGYPADRFGRRGIVLLTGLVGPCGVGAAGSSTGVMAIRELLAPELLAGVDLG 172
Qy 162 -----IGGH-----VSDRW----- 170
Db 173 YLMRELCDPQRLRVALAGELVGVGHFLFLGLALVYSKDMRFQRMITAPCLFLFYGM 232
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RESULT 10
US-10-000-273-4
; Sequence 4, Application US/10000273
; Patent No. US20020160386A1
; GENERAL INFORMATION:
; APPLICANT: Grandearl, Andrew David John
; TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE
; MOLECULES
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSeq for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/000 273
; FILING DATE: 02-NO. US20020160386A1-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/964,127
; FILING DATE: 06-NOV-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Crews, Ph.D., L., Lee
; REGISTRATION NUMBER: P-43,567
; REFERENCE/DOCKET NUMBER: 07334/038001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
; TELEEX: 200154
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 286 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
;
US-10-000-273-4

Query Match 7.0%; Score 98.5; DB 9; Length 286;
Best Local Similarity 17.8%; Pred. No. 0.017;
Matches 54; Conservative 29; Mismatches 73; Indels 147; Gaps 11;

CY 39 NFAAII PGHRCVWHMLDNNITGSGNGEIGTISEDALLRISIPDLSNLRPEKCRFRFHPQWQL 98
16 HYGAPPNPNSGM-EQPPNNSGVSVASAAALASASRVATSTDPF-----CSGFAP----- 65

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QY	152
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Db	66 -----DENHCKLMDMDINGLPVLTITNAIGQMDLVCDLQGWVILIEQLFLITLGA 112
QY	153 -----LFGMLVGGT----- 161
Db	113 SGVLELGYPADRFGRGRGIVLLTLGLVGPCGVGAAAGSSGTGNALRFLLGFLLAGVDLGV 172
QY	162 -----IGGH-----VSDRW----- 170
Db	173 YLMRELCDPTQRLRYVALAGELVGVGGHFLFLGLALVSKOMRFLQRMITAPCIFLFLYGM 232
QY	171 ---LVESARMLIITNKLDEGLKALRKVA---RTNGIKNAEETLNIIEVRSSTQBEELDAQ 224
Db	233 PGLFLIESARMLIVKRGIEEAGSVYLRIIAERNRPRGOMLGEA-----QBALDLE 282
QY	225 TKT 227
Db	283 SST 285

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RESULT 11
US-09-864-761-46676
; Sequence 46676, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aecmica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117

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; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 46676
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AB026898.1
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1
; OTHER INFORMATION: EST_HUMAN HIT: AV652088.1, EVALU 3.10e-02
; OTHER INFORMATION: SWISSPROT HIT: Q62674, EVALU 6.20e+00
US-09-864-761-46676

Query Match 6.6%; Score 93; DB 10; Length 81;
Best Local Similarity 32.8%; Pred. No. 0.011;
Matches 27; Conservative 11; Mismatches 37; Indels 8; Gaps 2;
QY 47 HRCVWHLNNTGSGNETGISEDALLRISIPLDNLRPEKCRFRVHPQWQLHLNGTIH 106
DB 3 HHCVAWVKNHFTN-----LSAAEQVLVSLPLDTAGHPCLMFRPPANASLDILSH 56
QY 107 STSEADTEPCVDGWVYDQSFPS 129
DB 57 RFNE--TQPCDMGWEPENRLPS 77

RESULT 12
US-09-860-232A-7
; Sequence 7, Application US/09860232A
; Patent No. US20020028494A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Rory A.J.
; TITLE OF INVENTION: 57256 AND 58289, NOVEL HUMAN
; FILE REFERENCE: 381552001500
; CURRENT APPLICATION NUMBER: US/09/860,232A
; CURRENT FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/205,288
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 486
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus amino acid sequence
US-09-860-232A-7

Query Match 6.4%; Score 90.5; DB 10; Length 486;
Best Local Similarity 26.4%; Pred. No. 0.23;
Matches 29; Conservative 28; Mismatches 32; Indels 21; Gaps 5;
QY 144 LKSVVQFLLLTGMLVGGIIGHVSDRWLVESARWLIITNKLDEGLKALKRKVARTNGIKNA 203
DB 190 LQVPALLLLIGLL-----FLPSPRWLVKGLKEAREVL---AKLRGVEDV 234
QY 204 EETLNIEVVRSTMOEELDAAQT-KTTVCDLFR---NPSMRKRICILVFLR 249
DB 235 DQ--EIQEIKAELEAGVEEKGKAGKASWGLFGRTRTPKVRQRLLMGVMLQ 282

RESULT 13
US-10-095-139-14
; Sequence 14, Application US/10095139
; Patent No. US20020165357A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Rory A.J.
; APPLICANT: Silius-Santiago, Inmaculada
; APPLICANT: Millennium Pharmaceuticals, Inc.
; TITLE OF INVENTION: 38554, 57301, and 58324, Human Organic
; TITLE OF INVENTION: Ion Transporters and Uses Therefor
; FILE REFERENCE: MPI01-017P1RNM

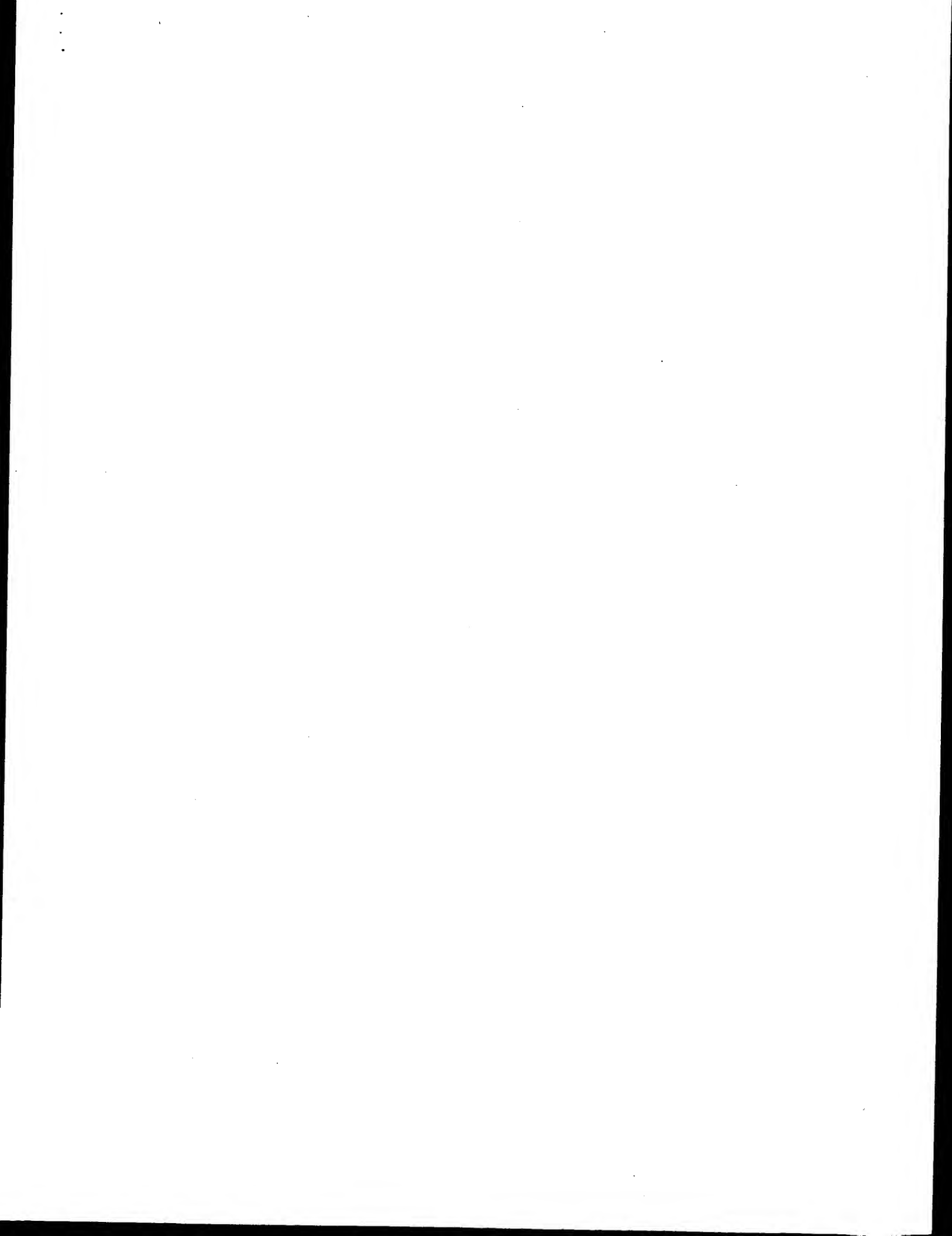
; CURRENT APPLICATION NUMBER: US/10/095,139
; CURRENT FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: 60/275,172
; PRIOR FILING DATE: 2001-03-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 487
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: consensus
US-10-095-139-14

Query Match 6.4%; Score 90.5; DB 9; Length 487;
Best Local Similarity 26.4%; Pred. No. 0.23;
Matches 29; Conservative 28; Mismatches 32; Indels 21; Gaps 5;
QY 144 LKSVVQFLLLTGMLVGGIIGHVSDRWLVESARWLIITNKLDEGLKALKRKVARTNGIKNA 203
DB 190 LQVPALLLLIGLL-----FLPSPRWLVKGLKEAREVL---AKLRGVEDV 234
QY 204 EETLNIEVVRSTMOEELDAAQT-KTTVCDLFR---NPSMRKRICILVFLR 249
DB 235 DQ--EIQEIKAELEAGVEEKGKAGKASWGLFGRTRTPKVRQRLLMGVMLQ 282

RESULT 14
US-09-795-693-27
; Sequence 27, Application US/09795693
; Patent No. US20020068710A1
; GENERAL INFORMATION:
; APPLICANT: Glucksmann, Maria A.
; TITLE OF INVENTION: 20685, 579, 17114, 23821, 33894, and
; FILE REFERENCE: 32613, No. US20020068710A1el Human Transporters
; CURRENT APPLICATION NUMBER: US/09/795,693
; CURRENT FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/185,906
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 487
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Pfam consensus sequence
US-09-795-693-27

Query Match 6.4%; Score 90.5; DB 10; Length 487;
Best Local Similarity 26.4%; Pred. No. 0.23;
Matches 29; Conservative 28; Mismatches 32; Indels 21; Gaps 5;
QY 144 LKSVVQFLLLTGMLVGGIIGHVSDRWLVESARWLIITNKLDEGLKALKRKVARTNGIKNA 203
DB 190 LQVPALLLLIGLL-----FLPSPRWLVKGLKEAREVL---AKLRGVEDV 234
QY 204 EETLNIEVVRSTMOEELDAAQT-KTTVCDLFR---NPSMRKRICILVFLR 249
DB 235 DQ--EIQEIKAELEAGVEEKGKAGKASWGLFGRTRTPKVRQRLLMGVMLQ 282

RESULT 15
US-09-795-693-20
; Sequence 20, Application US/09795693
; Patent No. US20020068710A1
; GENERAL INFORMATION:
; APPLICANT: Glucksmann, Maria A.
; TITLE OF INVENTION: 20685, 579, 17114, 23821, 33894, and
; TITLE OF INVENTION: 32613, No. US20020068710A1el Human Transporters
; FILE REFERENCE: 35800/209292
; CURRENT APPLICATION NUMBER: US/09/795,693



Tue Jan 7 08:48:16 2003

us-09-674-235-19.rnpb

GenCore version 5.1.3
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January 6, 2003, 20:58:28 ; Search time 82.9055 Seconds
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Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 381593 seqs, 216252194 residues 763186

Total number of hits satisfying chosen parameters:
Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: Published Applications NA:
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2: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:
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4: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:
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10: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:
11: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:
12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:
13: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:
14: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:
Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed.
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	738.6	43.3	1316	9	Sequence 3, Appl1
2	218.4	12.8	2866	9	Sequence 4, Appl1
3	208.8	12.2	1662	9	Sequence 3386, Ap
4	165.2	9.7	265	10	Sequence 8860, Ap
5	161.8	9.5	540	10	Sequence 2552, A
6	136.2	8.0	339	10	Sequence 1646, Ap
7	110.2	6.5	401	10	Sequence 4511, Ap
8	90.2	5.3	2237	10	Sequence 4, Appl1
9	80.6	4.7	1888	10	Sequence 4582, Ap
10	62.6	3.7	1831	10	Sequence 1, Appl1
11	59.4	3.5	393	10	Sequence 2, Appl1
12	50	2.9	640681	10	Sequence 3, Appl1
13	49.8	2.9	53332	10	Sequence 2919, Ap
14	47.2	2.8	413	10	Sequence 12350, A
15	47.2	2.8	891	10	Sequence 354, App
16	46.6	2.7	572	10	
17	46.6	2.7	351	10	
18	45.8				
19					

20	45.6	2.7	431	10	US-09-960-352-5558	Sequence 5558, Ap
21	44.8	2.6	516	10	US-09-960-352-5785	Sequence 5785, Ap
22	44.8	2.6	599	10	US-09-770-149-981	Sequence 581, App
23	44.2	2.6	56737	10	US-09-782-378A-17	Sequence 17, Appl
24	44.2	2.6	416	10	US-09-960-352-4584	Sequence 4584, Ap
25	44	2.6	1880	10	US-09-887-576-10	Sequence 10, Appl
26	44	2.6	2000	9	US-09-938-842A-3381	Sequence 3381, Ap
27	43.6	2.6	454	10	US-09-764-887-47	Sequence 376, Appl
28	43.6	2.6	796	10	US-09-764-887-376	Sequence 13489, A
29	43.4	2.5	335	10	US-09-960-352-13489	Sequence 3235, Ap
30	43.4	2.5	2000	9	US-09-938-842A-3325	Sequence 1036, Ap
31	43.2	2.5	344	10	US-09-960-352-1036	Sequence 14521, A
32	43.2	2.5	411	10	US-09-960-352-573	Sequence 573, App
33	43.2	2.5	1872	9	US-09-938-842A-3504	Sequence 3504, Ap
34	43.2	2.5	19553	10	US-09-764-847-14251	Sequence 14251, A
35	43.2	2.5	374	10	US-09-960-352-6528	Sequence 6528, Ap
36	43	2.5	414	10	US-09-960-352-11234	Sequence 11234, A
37	42.8	2.5	419	10	US-09-960-352-12302	Sequence 12302, A
38	42.6	2.5	341	10	US-09-960-352-7198	Sequence 7198, Ap
39	42.4	2.5	448	10	US-09-960-352-5301	Sequence 5301, Ap
40	42.4	2.5	480	10	US-09-960-352-2109	Sequence 2109, Ap
41	42.4	2.5	529	9	US-09-983-965-4201	Sequence 4201, Ap
42	42.4	2.5	2000	9	US-09-938-842A-87	Sequence 87, Appl
43	42.4	2.5	2252	9	US-09-870-759-87	Sequence 15, Appl
44	42.4	2.5	782	10	US-09-954-773A-15	
45	41.8	2.5				

ALIGNMENTS

RESULT 1
US-10-050-786-3
Sequence 3, Application US/10050786
Patent No. US20020155539A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Calcium Channel Polynucleotides, Polypeptides, and Antibodies
FILE REFERENCE: PTO13P1C
CURRENT APPLICATION NUMBER: US/10/050,786
PRIOR FILING DATE: 2002-01-18, 028
PRIOR APPLICATION NUMBER: US 09/774, 028
PRIOR FILING DATE: 2001-01-31
PRIOR APPLICATION NUMBER: PCT/US00/20392
PRIOR FILING DATE: 2000-07-27
PRIOR APPLICATION NUMBER: US 60/145,958
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: US 60/149,446
PRIOR FILING DATE: 1999-08-18
PRIOR APPLICATION NUMBER: US 60/189,064
PRIOR FILING DATE: 2000-03-14
NUMBER OF SEQ ID NOS: 12
SOFTWARE: Patentin Ver. 3.1
SEQ ID NO 3
LENGTH: 1316
TYPE: DNA
ORGANISM: Homo sapiens
US-10-050-786-3
Query Match 43.3%; DB 9; Length 1316;
Best Local Similarity 98.7%; Pred. No. 1.9e-146; Indels 1; Gaps 1;
Matches 755; Conservative 0; Mismatches 9;
QY 933 AAAAAAAAAATCTCAAGAAAGCATTAATGATGCTACACAAAGTACCAATTTTA 992
DB 526 AAAAAAAAAATCTCAAGAAAGCATTAATGATGCTACACAAAGTACCAATTTTA 585
QY 993 AGAAGCTTCATGAGCTGATGGTGGGAATTCAGAAAAAATACGAGAAAGACA 645
DB 586 AGAAGCTTCATGAGCTGATGGTGGGAATTCAGAAAAAATACGAGAAAGACA 645
QY 1053 CACCGAAGAGGTTTTCCTTACACACAGACAGACATATATAGTACATGAATCTCA 1112

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Db 646 CACGAGAGGGTTTTTCCCTCAACACGAGCAACATATATTAGATACATGAATCTCA 705
QY 1113 ATTATAATTATGGCAATTAATTGGCATTTTATTTCAAAATTAACCTTTGGGGACATGTAAT 1172
Db 706 ATTATAATTATGGCAATTAATTGGCATTTTATTTCAAAATTAACCTTTGGGGACATGTAAT 1172
QY 1173 CTCCTGAGCAATCTGATATATTTTGGGAAGTCCCTTTAAAAGTTTACAAATTTATCAATAAA 1232
Db 766 CTCCTGAGCAATCTGATATATTTTGGGAAGTCCCTTTAAAAGTTTACAAATTTATCAATAAA 1232
QY 1233 TTACTAGTAGATAAGATGATTCAGAAACAAAAGAAAATCACAGAATTAGGATGTCGCTGG 1292
Db 826 TTACTAGTAGATAAGATGATTCAGAAACAAAAGAAAATCACAGAATTAGGATGTCGCTGG 1292
QY 1293 CTGGCTGATGAAGCACCACATGTCATGAATTCATAAAGTTGCAAAAGTCAAAACCAATACCTGT 1352
Db 886 CTGGCTGATGAAGCACCACATGTCATGAATTCATAAAGTTGCAAAAGTCAAAACCAATACCTGT 1352
QY 1353 ACATGCAACCAAGAAATCAAAATAATCCAGAAATAGAGACCTATATAAATGCAATTTAATA 1412
Db 946 ACATGCAACCAAGAAATCAAAATAATCCAGAAATAGAGACCTATATAAATGCAATTTAATA 1412
QY 1413 CATGATACCTTTTGACATAATAAGCCATTTGGAAAACCGAAAGATTAGATACATAAATAACAT 1005
Db 1006 CATGATACCTTTTGACATAATAAGCCATTTGGAAAACCGAAAGATTAGATACATAAATAACAT 1472
QY 1473 TGACTATCTCTTTGTAATACAGTCACTAAATGATGTTAGTTACTTTTCCATGGTGAAT 1065
Db 1066 TGACTATCTCTTTGTAATACAGTCACTAAATGATGTTAGTTACTTTTCCATGGTGAAT 1532
QY 1533 TTTAATTAATTTCTTTCTGTAATTTTCTCTCTGTAATTTTAAACAAATAGCTGGTATA 1125
Db 1126 TTTAATTAATTTCTTTCTGTAATTTTCTCTCTGTAATTTTAAACAAATAGCTGGTATA 1592
QY 1593 GTTTACAATATTATTAAGATATTTGTTCAAAATTTGAAGGCAAGCCAGGTTTCAGCAATTT 1184
Db 1185 GTTTACAATATTATTAAGATATTTGTTCAAAATTTGAAGGCAAGCCAGGTTTCAGCAATTT 1652
QY 1653 TCAAACTGATGATACATTTTAAATAAATAAATTAATTAATTAATTAATTAATTAATTAATTA 1244
Db 1245 TCAAACTGATGATACATTTTAAATAAATAAATTAATTAATTAATTAATTAATTAATTAATTA 1697

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RESULT 2

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US-10-095-139-4
; Sequence 4, Application US/10095139
; Patent No. US20020165357A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Rory A.J.
; APPLICANT: Silos-Santiago, Immaculada
; TITLE OF INVENTION: Millennium Pharmaceuticals, Inc.
; FILE REFERENCE: 38554, 57301, and 58324, Human Organic
; CURRENT APPLICATION NUMBER: MPI01-017P1RNM
; PRIOR FILING DATE: 2002-03-11
; PRIOR FILING DATE: 2002-03-11
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 2866
; TYPE: DNA
; ORGANISM: homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (365)...(2026)
; OTHER INFORMATION: "n" represents ambiguous nucleotides
; NAME/KEY: misc feature
; LOCATION: (1)...(2866)
; OTHER INFORMATION: n = A,T,C or G
US-10-095-139-4

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Query Match

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Best Local Similarity 12.8%; Score 218.4; DB 9; Length 2866;
Matches 339; Conservative 0; Mismatches 201; Indels 0; Gaps 0;

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QY 155 GCTCTCTCTTTGGGGTCACTGTTTCAATCAATGAGCCCTTTGAGGAGCTCTTGAAGTCAAG 214
Db 333 GGGCCCTCTCTTTGGGGTCACTGTTTCAATGAGCTCTTGAAGTCAAGTCAAGTCAAG 214
QY 215 TTGAGAGCCCTTGGGAGATTTCAATGCTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTTCTG 392
Db 393 TGGTGGCTTGGGAGATTTCAATGCTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTTCTGTTTCTG 274
QY 275 TATTAAATCCCTCATATATCTGCTAGAGAACTTTGCTGAGCAATTCCTGAGGAGCTTTGAGTCCGT 452
Db 453 GGCTGTGTACCCAGAGCATGCTGAGAACTTTCTGGGCGCGGCTGAGGAGCTTTGAGTCCGT 334
QY 335 GGTGCCACATGCTGGCAATTAATCTGATCTGATCTGATCTGATCTGATCTGATCTGATCTGATCTG 512
Db 513 GGGCACCCCTCTGGCAATTAATCTGATCTGATCTGATCTGATCTGATCTGATCTGATCTGATCTG 394
QY 395 ATGCCCTCTTGAATCTCTATCCCACTAGACTCAAAATCTGAGGCCAGAGAGAGTCTGTC 572
Db 573 AGGCCCTCTGCTGATTTTCCATCCCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 454
QY 455 GCTTTGTTCATCCCGAGTGGGAGCTTTCTTCACTGAAATGAGGACTTATCCAGACACAAATG 632
Db 633 GCTTCGCGCAGCAACAGTGGGAGCTTTTGAACCCCAATGCGGCGGCGGCGGCGGCGGCGGCGG 514
QY 515 AGGCAGACACAGAACCCCTGTTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 692
Db 693 AGGCAGACACAGAACCCCTGTTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 574
QY 575 CCATTGTGACTAGTGGGAGCTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATG 752
Db 753 CAATCGTGGCAAGTGAACCTGCTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATG 634
QY 635 TCTACTTCTGACTGGAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 812
Db 813 CCATCTACCTGCTGGGATTTCTGCTGGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 694

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RESULT 3

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US-10-095-139-6
; Sequence 6, Application US/10095139
; Patent No. US20020165357A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Rory A.J.
; APPLICANT: Silos-Santiago, Immaculada
; TITLE OF INVENTION: Millennium Pharmaceuticals, Inc.
; FILE REFERENCE: 38554, 57301, and 58324, Human Organic
; CURRENT APPLICATION NUMBER: MPI01-017P1RNM
; PRIOR FILING DATE: 2002-03-11
; PRIOR FILING DATE: 2002-03-11
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 1662
; TYPE: DNA
; ORGANISM: homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1662)
; OTHER INFORMATION: n represents ambiguous nucleotides
; NAME/KEY: misc feature
; LOCATION: (1)...(1662)
; OTHER INFORMATION: n = A,T,C or G
US-10-095-139-6

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Query Match

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Best Local Similarity 12.2%; Score 208.8; DB 9; Length 1662;
Matches 339; Conservative 0; Mismatches 201; Indels 0; Gaps 0;

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Matches 321; Conservative 0; Mismatches 187; Indels 0; Gaps 0;

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QY 187 ATGGCTTTAGAGAGCTCTTGAAGTCAAGTTGAGAGGCTTTGGAGATTTGAGATGCTTCAT 246
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DB 1 ATGGCATTTTCTGAACTCTCTGGAACCTCGGGGGGCTGGGAGGCTTCCAGGTTCTCCAG 60
QY 247 CTGGTTTATTTCTCTCTCTCTCTCATGTATTATTCCTCATATTACTGTAGAGAACTTT 306
    |||||
DB 61 ACGATGGCTCTGATGATGCTTCATCATATGGCTGTGTATCCAGAGCATGCTGAGAACTTC 120
QY 307 GGTGAGCCATTTCTGTCATGCTGCTGGGTCAAGTGTGAGCAATATATCTGATCT 366
    |||||
DB 121 TGGGCGCGCTGCGCAGCAGCCGCTGCTGGGCAACCCCTCTGAGCAACAGCAGGCTCAG 180
QY 367 GGTATGAAATGGAATCTCTCATGTAAGATGCCCTCTTGAAGATCTTATCCAGTAC 426
    |||||
DB 181 GCCAGCATCTTAAAGAGCTTGAAGTCTGAGGCTCTGAGGCTCTTCCATTCGCCGCGGCG 240
QY 427 TCAATCTGAGGCGCAGAGAGTGTGCTGCTTGTGCTATCCCAAGGCTTCTTAC 486
    |||||
DB 241 CCAGACGAGAGGCGCCAGCAGTGGCGGCTTCCGCGCAGCAGAGTGGCAGCTCTTGAC 300
QY 487 CTGAATGGAATCTTCCAGCAGCAAGTGAAGCAGACAGAAACCTGTGAGTGGCTGG 546
    |||||
DB 301 CCAGATGCGCAGGCGCAGCTGAGGAGGCGCAGCAGGAGCGCTGTGATGCTGG 360
QY 547 GTATATGATGAAGCTACTTCTCTTCCAGCATTTGTGATGAAGTGGAGCTGTGATGAT 606
    |||||
DB 361 GTCTATAGCGCAGCAGATCTTCACTCCAGCATGAGGCGAGTGGAGAACTGTGTGAC 420
QY 607 TATCAGTCACTGAAGATGAGTGTCAATCTTCTACTCTCTGATCTGAGAAAGTGGGAGGC 666
    |||||
DB 421 TCTCATGCTGTAAGAGCCATGCGCCAGTCCATCTAAGCTGGCTGGGATTTCTGGTGAAGCT 480
QY 667 ATCATAGTGGGCGCATGCTCTCAGACAGGT 694
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DB 481 GCTGCGTGGCGCTGCTCTCAGACAGGT 508
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RESULT 4

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US-09-960-352-3386/C
; Sequence 3386, Application US/09960352
; Patent No. US20020137139A1
; GENERAL INFORMATION:
; APPLICANT: Wairren, Wesley C.
; APPLICANT: Tao, Nengping
; APPLICANT: Byatt, John C.
; APPLICANT: Mathialagan, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
; FILE REFERENCE: 16511.006/37-21(10298)C
; CURRENT APPLICATION NUMBER: US/09/960,352
; NUMBER OF SEQ ID NOS: 15112
; SEQ ID NO 3386
; LENGTH: 265
; TYPE: DNA
; ORGANISM: Bos taurus
; OTHER INFORMATION: Clone ID: 15-LIB3058-028-Q1-K1-D3
US-09-960-352-3386
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Query Match 9.7%; Score 165.2; DB 10; Length 265;
Best Local Similarity 7.5%; Pred. No. 4,6e-26;
Matches 200; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

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QY 258 TCTTCCCTCTCTCATGTTATTAATCCCTCATATACCTGTAGAGAACTTGGTGGAGCAT 317
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DB 264 TTTTCTTTTATCATGATAGTGTCTGCTACTCTTGTGAGAACTTCACTGAGCGCT 205
QY 318 TCCGTCATCTGCTGCGGGTCCAGATGCTGAGCAATATATCTGATCTGTGTAATGAAC 377
    |||||
DB 204 TCCGTCATCATGCTGCGGGTCCAGATCTTGTATATGCAATCTGCTGTGTAATGATAC 145
    |||||
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QY 378 TGGATTCCTCAGTGAAGATGCCCTCTTGAAGATCTTATCCCACTAGACTCAATCTGAG 437
    |||||
DB 144 TGGATTCCTCAGCTGATGCTGCTGAGATCTTCCATCCAGTGAATCAAACTTCAA 85
QY 438 GCCAGAGAGTGTGCTGCTTGTTCATCCCAAGTGGCAGGCTTCTTCACTGAATGGAG 497
    |||||
DB 84 GCCAGAGAAATGTCGCTGCTTCTTCATCCCAAGTGGCAGGCTTCTTCACTGAATGAG 25
QY 498 TATCCACAGCAGCAAGTGA 515
    |||||
DB 24 CTTCGCCAACATGACTGA 7
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RESULT 5

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US-09-864-761-8860/C
; Sequence 8860, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 8860
; LENGTH: 540
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC012153.10
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 6
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 7.2
```

RESULT 6
US-09-864-761-25526/c
; Sequence 25526, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: GENEX EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aesmica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-84
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30

RESULT 7
US-09-833-381-2007/c
; Sequence 2007, Application US/09833381
; Patent No. US20020132090A1
; GENERAL INFORMATION:

APPLICANT: Robison, Keith E.
TITLE OF INVENTION: No. US20020132090A1 Nucleic Acid and Protein Homologs
FILE REFERENCE: 5800-119
CURRENT APPLICATION NUMBER: US/09/833,381
CURRENT FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: 09/516,448
PRIOR FILING DATE: 2000-02-29
NUMBER OF SEQ ID NOS: 2050
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2007
LENGTH: 401
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(401)
OTHER INFORMATION: n = A,T,C or G
US-09-833-381-2007

Query Match 6.5%; Score 110.2; DB 10; Length 401;
Best Local Similarity 73.9%; Pred. No. 2e-14;
Matches 164; Conservative 0; Mismatches 56; Indels 2; Gaps 2;

QY 501 CCACGACAGAGGAGGAGGACAC-AGAACCTGTGTGATGGCTGGATATAGA-TCAA 558
DB 390 CCCCACACAAATGAGGACAGACAGANNAGCCCTGTGTGATGGCTGGATATAGA 331
QY 559 AGCTACTTCCCTTGCACCATTTGACTAGTGGAGCTGTGTATGTATATCACTCTG 618
DB 330 AGCTCTTCTCTCCACCATCGTACGTAGTGGAGCCTGTATGTATCACTCTCTA 271
QY 619 AAATCACTGTTCAATTCCTACTCTGACGTGATGCTGGTGGAGGACATCATAGTGGC 678
DB 270 AAATCAATGTTCAATCCATTTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 211
QY 679 CATGCTCAGACAGGTGCTGTGGAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
DB 210 CATCTTTCAAGACGCTCCTGCTCACTGCTCTGCTGCTGCTGCTGCTGCTGCTG 169

RESULT 8

US-09-917-800A-1646
Sequence 1646, Application US/09917800A
Patent No. US20020119462A1
GENERAL INFORMATION:
APPLICANT: Mendrick, Donna
APPLICANT: Porter, Mark
APPLICANT: Johnson, Kory
APPLICANT: Castle, Arthur
APPLICANT: Elashoff, Michael
APPLICANT: Gene Logic, Inc.
TITLE OF INVENTION: Molecular Toxicology Modeling
FILE REFERENCE: 44921-5038-US
CURRENT APPLICATION NUMBER: US/09/917,800A
CURRENT FILING DATE: 2001-07-31
PRIOR APPLICATION NUMBER: US 60/222,040
PRIOR FILING DATE: 2000-07-31
PRIOR APPLICATION NUMBER: US 60/222,880
PRIOR FILING DATE: 2000-11-02
PRIOR APPLICATION NUMBER: US 60/290,029
PRIOR FILING DATE: 2001-05-11
PRIOR APPLICATION NUMBER: US 60/290,645
PRIOR FILING DATE: 2001-05-15
PRIOR APPLICATION NUMBER: US 60/292,336
PRIOR FILING DATE: 2001-05-22
PRIOR APPLICATION NUMBER: US 60/295,798
PRIOR FILING DATE: 2001-06-06
PRIOR APPLICATION NUMBER: US 60/297,457
PRIOR FILING DATE: 2001-06-13
PRIOR APPLICATION NUMBER: US 60/298,884
PRIOR FILING DATE: 2001-06-19
PRIOR APPLICATION NUMBER: US 60/303,459
PRIOR FILING DATE: 2001-07-09

NUMBER OF SEQ ID NOS: 1740
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 1646
LENGTH: 2227
TYPE: DNA
ORGANISM: Rattus norvegicus
FEATURE:
OTHER INFORMATION: Genbank Accession No. US20020119462A1 NM_017224
US-09-917-800A-1646

Query Match 5.3%; Score 90.2; DB 10; Length 2227;
Best Local Similarity 52.7%; Pred. No. 5.5e-10;
Matches 268; Conservative 0; Mismatches 208; Indels 33; Gaps 2;

QY 185 CAATGACCTTTGAGAGCTCTTGTGCTCAAGTTGAGAGCCCTTGGAGATTTCAGATGCTTC 244
DB 252 CCAATGACCTTTGAGAGCTCTTGTGCTCAAGTTGAGAGCCCTTGGAGATTTCAGATGCTTC 311
QY 245 ATCTGCTTTTATTTCTTCCCTCTCTCATGTTATTAATCCCTCATATACGTCTAGAGACT 304
DB 312 AGGTCAACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 371
QY 305 TTGCTGAGCATTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 364
DB 372 TCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 408
QY 365 CTGCTATGAACTGGAATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 424
DB 409 TGCCTATGCAATCTGCAATCTGCAATCTGCAATCTGCAATCTGCAATCTGCAATCTGCAATCT 461
QY 425 ACTCAATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 484
DB 462 ACAAGCAAGCAACCCGAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 521
QY 485 ACCGATGAGGACTATCAAGACAGACAGACAGACAGACAGACAGACAGACAGACAGACAGACAG 544
DB 522 TTTCAATGAGC---AGAGGCAATGAGCAGACAGACAGACAGACAGACAGACAGACAGACAG 578
QY 545 GGGATATATGATCAAGTACTTCTCTGACATTTGACTTGAATGAGGAGGAGGAGGAGGAGGAGG 604
DB 579 GGGCTATATGACACAGACAGCCTTCCCTTCAACATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 638
QY 605 ATATATGATCACTGAAATCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 664
DB 639 CTCAATGAGGCTTTCCGCGAGCTGGCCAGCTCCCTGTATCATGTGAGATGCTGCTGAGAG 698
QY 665 GCATCATAGTGGCCATGCTCAGACAG 693
DB 699 CATGCTGTTTGGCTACCTGGGAGGACAG 727

RESULT 9

US-09-983-965-4511
Sequence 4511, Application US/09983965
Patent No. US20020137160A1
GENERAL INFORMATION:
APPLICANT: Warren, Wesley C.
APPLICANT: Tao, Nengping
APPLICANT: Byatt, John C.
APPLICANT: Mathialagan, Nagappan
TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
FILE REFERENCE: 37-21(10297)C
CURRENT APPLICATION NUMBER: US/09/983,965
CURRENT FILING DATE: 2001-10-26
PRIOR APPLICATION NUMBER: US 09/465,231
PRIOR FILING DATE: 1999-12-15
PRIOR APPLICATION NUMBER: US 60/113,678
PRIOR FILING DATE: 1998-12-17
NUMBER OF SEQ ID NOS: 5912
SEQ ID NO 4511
LENGTH: 370
TYPE: DNA

Query Match 2.9%; Score 50; DB 10; Length 393;
 Best Local Similarity 45.9%; Pred. No. 0.09;
 Matches 170; Conservative 0; Mismatches 200; Indels 0; Gaps 0;

QY 1032 AAAAAATACAGAAAAGACACACAGAGGGTTTTTTCCTACACACAGCAGACACT 1091
 DB 393 AAAAAATACAGAAAAGACACACAGAGGGTTTTTTCCTACACACAGCAGACACT 1091
 QY 1092 ATATTAGTACATGATCTCAATTATTAATGCAATTAATTTGCAATTTATTTCAAAAT 1151
 DB 333 TATTAAATTTAT 274
 QY 1152 TAACCTGGGAGACATGATCTCTTGAGCAATCTGATTTTGGGAGTCCCTTTAAA 1211
 DB 273 ATTTTAAAAAT 214
 QY 1212 AGTTACAAATTTATCAATTAATTTACTAGTAGATAGATGATTCAGAAACAAAGAAATC 1271
 DB 213 ATAAAAAATTTAT 154
 QY 1272 ACAGATTTAGATGTGGCTGCTGGGTATGAAGCACATGTGATTCATTAAGTTG 1331
 DB 153 AAAAAATACAGAAAAGACACACAGAGGGTTTTTTCCTACACACAGCAGACACT 94
 QY 1332 CAAAAGTCAAAACATCTGTACATGCAACAGAAATCAAAATTAATCCAGAAATAGAGA 1391
 DB 93 AAAAAATACAGAAAAGACACACAGAGGGTTTTTTCCTACACACAGCAGACACT 34
 QY 1392 CCTATATATAA 1401
 DB 33 AAAAAATACAGAAAAGACACACAGAGGGTTTTTTCCTACACACAGCAGACACT 24

RESULT 13
 US-09-790-988-1/c
 ; Sequence 1, Application US/09790988
 ; Patent No. US20020127687A1
 ; GENERAL INFORMATION:
 ; APPLICANT: SHIGENOBU, SHUJI
 ; APPLICANT: WATANABE, HIDEKI
 ; APPLICANT: HATTORI, MASAHIRA
 ; APPLICANT: SAKAKI, YOSHIYUKI
 ; TITLE OF INVENTION: GENOME DNA OF BACTERIAL SYMBIONT OF APHIDS
 ; FILE REFERENCE: 081356/0159
 ; CURRENT APPLICATION NUMBER: US/09/790, 988
 ; CURRENT FILING DATE: 2001-02-23
 ; PRIOR APPLICATION NUMBER: JP2000-107160
 ; PRIOR FILING DATE: 2000-04-07
 ; NUMBER OF SEQ ID NOS: 7
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 1
 ; LENGTH: 640681
 ; TYPE: DNA
 ; ORGANISM: Buchnera sp.
 US-09-790-988-1

Query Match 2.9%; Score 50; DB 10; Length 640681;
 Best Local Similarity 44.7%; Pred. No. 1;
 Matches 277; Conservative 0; Mismatches 340; Indels 3; Gaps 2;

QY 1088 ACATATATATAGATCAATCTCAATTAATTAATGCAATTAATTTGCAATTTATTTCA 1147
 DB 527404 ACATATATATAGATCAATCTCAATTAATTAATGCAATTAATTTGCAATTTATTTCA 1147
 QY 1148 AATTAACCTGGGAGACATGTAATCTCTTGAGCAATCTGATTTTGGGAGTCCCTTT 1207
 DB 527344 TGTATTTGATCTAAAAATATATTTTGTATTAACATTTGATTTATTCATAGTCAAAATG 527285
 QY 1208 AAAAAATACAGAAAAGACACACAGAGGGTTTTTTCCTACACACAGCAGACACT 1266
 DB 527284 AT 527225
 QY 1267 AATACAGAAATAGATGTGGCTGCTGGGTATGAAGCACATGTGATGATTCATTA 1326

DB 527224 ATATCTTTTCTGTTTTTAAAGATAGATATATATATATATATATATATATATATAT 527165
 QY 1327 AGTTGCAAAAGTCAAAACATPACTGTACATGCAACACAGAAATCAAAATTAATCCAGAAAT 1386
 DB 527164 CATGTATCCAAAGAGTTTATTTCTTTAACTTATGATATATATATATATATATATAT 527105
 QY 1387 AGAGACCTAT 1446
 DB 527104 TTTTAT 527045
 QY 1447 CGGAAGATTAATGATTAAT--AACAATGACTATCTCTTTGTAATACAGTCAATAAT 1504
 DB 527044 TCTATTTTATAGATTTTAAATGAAATATTTGATTTAGAAATCTCTTTTATTAACAAT 526985
 QY 1505 GATGTGTACTACTTTTCCAGTGGGAAATTTAATTAATCTTTTCTGTAATTTTCTCTC 1564
 DB 526984 TTTTATTAATATGTTTCTCTTTTAAATTTTATTTTATTTTAAATTTCAAGTTTATATA 526925
 QY 1565 TGTATATTTTAAACAAATAGCTGTGATATGTTTACATATTTTAAAGATATTTGCAAAAT 1624
 DB 526924 TATGTATCAGAAAAAATATAGATCTACTTTTGTGATGATATAAATGATATTTTCTTA 526865
 QY 1625 GAAGGCGAAGGCCAGTTCAGCAATTTTCAAACTGTATGTACATTTAATTAATTAATTA 1684
 DB 526864 TTATTTTAAATTTATAGAAATTAATTTTAAATTAATTAATTAATTAATTAATTA 526805
 QY 1685 TAAATTAATAAATATATATTT 1704
 DB 526804 TTAATAGAAATATTAATTTT 526785

RESULT 14
 US-09-790-988-1
 ; Sequence 1, Application US/09790988
 ; Patent No. US20020127687A1
 ; GENERAL INFORMATION:
 ; APPLICANT: SHIGENOBU, SHUJI
 ; APPLICANT: WATANABE, HIDEKI
 ; APPLICANT: HATTORI, MASAHIRA
 ; APPLICANT: SAKAKI, YOSHIYUKI
 ; TITLE OF INVENTION: GENOME DNA OF BACTERIAL SYMBIONT OF APHIDS
 ; FILE REFERENCE: 081356/0159
 ; CURRENT APPLICATION NUMBER: US/09/790, 988
 ; CURRENT FILING DATE: 2001-02-23
 ; PRIOR APPLICATION NUMBER: JP2000-107160
 ; PRIOR FILING DATE: 2000-04-07
 ; NUMBER OF SEQ ID NOS: 7
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 1
 ; LENGTH: 640681
 ; TYPE: DNA
 ; ORGANISM: Buchnera sp.
 US-09-790-988-1

Query Match 2.9%; Score 49.8; DB 10; Length 640681;
 Best Local Similarity 45.6%; Pred. No. 1.1;
 Matches 253; Conservative 0; Mismatches 297; Indels 5; Gaps 2;

QY 1022 AATTCAGAAAAAATACAGAAAAGACACACAGAGGGTTTTTTCCTACACACCA 1081
 DB 77899 AATGCACAGAAAAAAGACAGAAAAATATTCACCAAAATGATCATATAAATCAATCA 77958
 QY 1082 GCAAGACATATATAGATCAATGATCAATTTAATTAATGCAATTAATTTGCAATTTT 1141
 DB 77959 ATAGATGCAATCAATA--ATATTTCAACAGAAATGAAAGCAATTTTCAAGAA 78015
 QY 1142 ATTTCAAAATTAATCTGGGAGACATGTAATCTCTTGAGCAATCTGATATTTTGGGAAG 1201
 DB 78016 GAGAGCCATTTCTTTATCTAATCTAATATCAATGTTATTTAATATATATATTA 78075
 QY 1202 TCCTTAAAAAGTTCAAAATTTATCAATTAATTTACTAGTAGATGATTCAGAAAC 1261

Db 78076 AATAGTAAAAAATTTAAAAAATAATTATATCTGTGTAGTAAAAAATTAATCGTGATAAC 78135
QY 1262 AAGAAATACAGAAATTAGATGTGGCTGCTGTGTATGAGACCACTGATGATTAAT 1321
Db 78136 ACAGTAAATATGAAATTAATCATAGTGTATCACATACAAAAATGAACATAGAGAAAT 78195
QY 1322 CATAAAGTTGCAAAAGTCMAAACAAAT--ACTGTACATGCAACAGAAATCAAAATAAATC 1379
Db 78196 AAGAGTTATCAGCAGAGATTTATAGTGAACCTTTCTAAGATAAATGGAATTTGTCT 78255
QY 1380 CAGAAATAGAGACCTATATAAATGCATTTAATACATGATCTTTTGACATATAAGCCAT 1439
Db 78256 CCTTTAAGCACACAAAAAATAAATAATTTGAACATTTAATACGAGAAAGCAATAGATAT 78315
QY 1440 TGGAAACGGAAGATTAGTACTAATAAATCAATTAACATTCATCTCTTTGTAATACAGTCAC 1499
Db 78316 TCGAAAGCTCGAGGAGATAGTGTTCATCTTGTTAATGATCATTTTGTCTAAATATGATCAA 78375
QY 1500 TAAATGATGTAGTTACTTTTCCATGTTGGAATTTTAATTAATTTCTTTCTTTGTAATTTT 1559
Db 78376 AATATACCAGTTCAATATAAATCATATAAATCTTTAGAAATCAAAATTTTATATAAT 78435
QY 1560 CTCTCTGATATTTT 1574
Db 78436 TTTGCACCATGGTTT 78450

RESULT 15

US-09-801-861-3/c
; Sequence 3, Application US/09801861
; Patent No. US20020119544A1
; GENERAL INFORMATION:
; APPLICANT: YAN Chunhua et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CLO01098
; CURRENT APPLICATION NUMBER: US/09/801.861
; CURRENT FILING DATE: 2001-03-09
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 5332
; TYPE: DNA
; ORGANISM: Human
US-09-801-861-3

Query Match 2.9%; Score 49; DB 10; Length 5332;
Best Local Similarity 45.1%; Pred. No. 0.73;
Matches 223; Conservative 0; Mismatches 270; Indels 2; Gaps 1;
QY 1209 AAAAGTTACAAAATTTATCAATTAATTAATCTAGTAGATGAATGATCAGAAACAAAGAAA 1268
Db 31826 AATTCGAAGATCTTCTACAAATATTAGTATTTTATTAGTAGAGCTACTCAGAGGCTGA 31767
QY 1269 ATCAGAGAATTAGGATGTGGCTGCTGTATGAAGCACCATGTGATGAATTCATAAAG 1328
Db 31766 GCGAGGAGATTGCTTGAATCTGGAGGTGGAGGTTCGAGTGAGCTGAGATCGTCCACT 31707
QY 1329 TTGCAAAAGTCAAAACATCTGTACATGCAACAGAAATCAAAATAAATCCAGAAATAG 1388
Db 31706 GCACCTCAGCGCTGGCAATAGAGTGAGACTCCATCTCAAAAAAATAAATACATATAT 31647
QY 1389 AGACCTATATAAATGATTTAATACATGATCTTTTGACATAAAGCCATTTGGAACG 1448
Db 31646 ATATATAAATAAATAATATAATATAAATAAATAAATAAATAAATAAATAAATAAATA 31587
QY 1449 GAAAGATT--AGATACTAAATAACATTGACTATCTCTTTGTAATAACAGTCACTAAATGA 1506
Db 31586 TAAATATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 31527
QY 1507 TGTTAGTTACTTTTCCATGGTGAATTTTAATTAATTTTCTTTGTAATTTTCTCTCTG 1566

Db 31526 TATAAATATAAATATAAATATAAATATAAATATAAATATAAATATAAATATAAATATA 31467
QY 1567 TATATTTTAAACAATAGCTGCTGTATAGTTTACAATATTATAAAGATATTGTTCAAAATGA 1626
Db 31466 AAAATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 31407
QY 1627 AGGCAAGGCCAGGTTTCAGCAATTTTCCAACTGTATGTACATTTTAATAAAAAATCACTATA 1686
Db 31406 AAATATATAAATATAAATATAAATATAAATATAAATATAAATATAAATATAAATATA 31347
QY 1687 AATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 1701
Db 31346 AAATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 31332

Search completed: January 6, 2003, 22:57:00
Job time : 436.906 secs

; TITLE OF INVENTION: NOVEL GENE ENCODING ORGANIC ANION TRANSPORTER
; FILE REFERENCE: 240.1PCnew
; CURRENT APPLICATION NUMBER: US/09/330,245A
; CURRENT FILING DATE: 1999-06-10
; PRIOR APPLICATION NUMBER: 60/088,864
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/132,267
; PRIOR FILING DATE: 1999-05-03
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2123
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: This information
; OTHER INFORMATION: is not available.
; NAME/KEY: CDS
; LOCATION: (263)..(1912)
US-09-330-245A-1

Query Match 4.9%; Score 83.8; DB 4; Length 2123;
Best Local Similarity 51.9%; Pred. No. 5.7e-12;
Matches 264; Conservative 0; Mismatches 212; Indels 33; Gaps 2;
QY 185 CAATGGCTTTGAGGAGCTTTGAGTCAAGTTGAGGGCTTGGGAGATTTCAGATGCTTC 244
Db 261 CAATGGCTTTAAATGACCTCTGAGCAGAGTGGGGGTGCGCCGCTTCAGCAGATCC 320
QY 245 ATCTGGTTTATTTCTTCCCTCTCATGTTATTAATCCCTCATATATCTGTAGAGAACT 304
Db 321 AGGTACACCTGGTGGTCTCCCTGCTCTGATGGCTTCTCAACACACCTGACAGAACT 380
QY 305 TTGCTGAGGCAATTCCTGGTTCATGCTGCTGGTCCACATGCTGGACATAATACTGAT 364
Db 381 TCACTGCTGCATCCCTACCCACACACTGCCGCCGCC----- 417
QY 365 CTGTAATGAACCTGGAATCTCTAGTGAAGATGCCCTTTGAGAACTCTTATCCCACTAG 424
Db 418 -----TGCCGATGCCAAGCTCAGCAAGAACGGGGGCTGGAGTCTGGCTGCCCGGG 470
QY 425 ACTCAATCTGAGGCCAGAGAAGTCTGCTGCTTTGTCATCCCGAGTGGCAGCTTCTTC 484
Db 471 ACAGCAGGGGAGCTGAGTCTGCTGCTCCCTTCACCTCCCGCAGTGGGAGTGGCT 530
QY 485 ACTGAATGGAACTATCCACAGCACAAGTGAAGGAGCAGACAGAACCTGTGTGGATGCT 544
Db 531 TTCTCAATGGCAGAGAAGCAATGGCAGAGGGC---CACAGAGCCCTGCACCATGGCT 587
QY 545 GGTATATGATCAAGCTACTTCCCTTCGACCAATTTGACTAAGTGGGACCTGGTATGTG 604
Db 588 GGATCTATGACACAGCAGCTTCCCATCTACCATCGTGAAGTGGGACCTTGTGTGCT 647
QY 605 ATTATCAGTCACTGAATCAGTGGTTCAATTCCTACTTCTGACTTGAATCTGTGGAG 664
Db 648 CTCACAGGGCCCTACGCCAGCTGGCCAGTCTTGTACATGTTGGGGTCTGCTCGGAG 707
QY 665 GCATCATAGTGGCCATGTCTGACAGAGG 693
Db 708 CCATGGTGTTCGGCTACCTTGCAGACAGG 736

RESULT 3
US-09-572-147-1
; Sequence 1, Application US/09572147
; Patent No. 6420544
; GENERAL INFORMATION:
; APPLICANT: Lin Yue
; APPLICANT: John Feild
; APPLICANT: Harma Ellens
; TITLE OF INVENTION: POLYNUCLEOTIDE AND POLYPEPTIDE SEQUENCES
; TITLE OF INVENTION: ENCODING MURINE ORGANIC ANION TRANSPORTER 5 (moATP5) AND
; TITLE OF INVENTION: SCREENING METHODS THEREOF

; FILE REFERENCE: GP-70622
; CURRENT APPLICATION NUMBER: US/09/572,147
; CURRENT FILING DATE: 2000-05-17
; PRIOR APPLICATION NUMBER: 60/134,879
; PRIOR FILING DATE: 1999-05-19
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 1638
; TYPE: DNA
; ORGANISM: MUS MUSCULUS
US-09-572-147-1

Query Match 4.8%; Score 81; DB 4; Length 1638;
Best Local Similarity 66.1%; Pred. No. 2.7e-11;
Matches 117; Conservative 0; Mismatches 60; Indels 0; Gaps 0;
QY 517 GCAGACACAGAACCTGTGTGGATGGCTGATATGATCAAAAGCTACTTCCCTTCGACC 576
Db 280 GGAGTCACAGAGCCCTGCTTGTATGGTGGTCTATGACAAACAGCACCTTCCCTTCACC 339
QY 577 ATTGTCACTAAAGTGGGACCTGTGTATGTGATTATCAGTCACTGAATCAGTGGTTCAATTC 636
Db 340 ATCGTCACTGAGTGGAACTTGTGTCTCTCATCGGCGCTTCCGCGAGCTGGCCAGTCC 399
QY 637 CTACTTCTCACTGGAATGTGTGGAGGACATAGTGGCCATGTCTCAGACAGG 693
Db 400 CTGTTCACTGTGGAGTGTACTGGGAGCATGATGTTTGGCTACCTGGCGGACAGG 456

RESULT 4
US-08-232-463-14/c
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/935,313
; FILING DATE:
; APPLICATION NUMBER: EP 91 114 300.6
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 30472/114 IMMU
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7218 base pairs
; TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
CLONE: PTZGC-Fls
US-08-232-463-14

Query Match 3.5%; Score 60.4; DB 1; Length 7218;
Best Local Similarity 8.7%; Pred. No. 8.4e-06;
Matches 40; Conservative 228; Mismatches 194; Indels 0; Gaps 0;

652 ATGCTGCTGAGAGCATATAGTGGCCATGCTCTAGACAGGTGCTGTAATCTGCT 711
1469 ATGCAAGTATGTAAGAGATAGAGATTTGTAACRRRRRRRRRRRRRRRRRRRR 1410
712 CGGTGCTGATATATCAACCAATAACTAGATGAGGGCTTAAGGCACTTAAGAAATTGCA 771
1409 RRR 1350
772 CGCACAAATGATATAAGATGCTGAGAAACCCGTAGACATAGAGTTGATGATCCACC 831
1349 RRR 1290
832 ATGCAAGAGAGTGTGATGACAGACACCAAACTAGTGTGATGCTCCGCAAC 891
1289 RRR 1230
892 CCCAGTATCGCTAAAGATCTGATCTGATTTTGAAGAAAAAAATCTCAAGGAA 951
1229 RRR 1170
952 AGCATATAATGATCTCTACACAAAGATGCAAAATTTTAAGAGCTTCATGAGCTGA 1011
1169 RRR 1110
1012 TTGTGGGGAATTCAGAAAAAAATACAGAAAAAGACACAGAGGGTTTTC 1071
1109 RRR 1050
1072 CCTACACAGCAAGAACATATATTATGATACATGATCTCA 1113
1049 CCGCAGGCAAGCTCGAATTAATTCTGTGAGCGTATGCGAA 1008

RESULT 5

US-07-867-106-2
Sequence 2, Application US/07867106
Patent No. 5389526

GENERAL INFORMATION:
APPLICANT: Slade, Martin B
APPLICANT: Chang, Andy C M
APPLICANT: Williams, Keith L
TITLE OF INVENTION: Improved Plasmid Vectors for Cellular
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESS: Woodcock Washburn Kurtz Mackiewicz & No. 5389526ris
STREET: One Liberty Place 46th Floor
CITY: Philadelphia
STATE: PA
COUNTRY: USA
ZIP: 19103

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/867,106
FILING DATE: 19920625

PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU PJ 7187
APPLICATION NUMBER: PCT/AU90/00530
FILING DATE: 02-NOV-1989

ATTORNEY/AGENT INFORMATION:

NAME: Feeney, Joanne Longo
REGISTRATION NUMBER: 35,134
REFERENCE/DOCKET NUMBER: RICE-0002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 5852 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ANTISENSE: NO

FEATURE:
NAME/KEY: CDS
LOCATION: 2378..5038
FEATURE:
NAME/KEY: CDS
LOCATION: 2378..5038

Query Match 3.2%; Score 54; DB 1; Length 5852;
Best Local Similarity 49.1%; Pred. No. 0.00033;
Matches 173; Conservative 0; Mismatches 175; Indels 4; Gaps 1;

1345 AATACGTATACATGCAACAGCAAAATCAAAATTAATCCGAAATGAGACCTATATATGC 1404
5431 AATATTTGAATTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 5490
1405 ATTTATATCATGATCTTTTGACATTAATTAAGCCATTTGAAAGCGAAAGATTAGATCTA 1464
5491 TTTTAATATTTTAAATCTGCTGATGATTTTAAATTAATTAATTAATTAATTAATTA 5550
1465 AATAACATGACATCTCTGTAATTAATGATCACTAATGATGTTGATCTTTCCAT 1524
5551 AAAAAC---CCTTACATTTTATTTTATTTATTCOAATTTATCATTTTATTTT 5606
1525 GGTGAATTTTAAATTAATCTTTTCTTTGTAATTTTCTCTGTAATTTTAAACAATAG 1584
5607 TTTTATTTTATTTTATTTTATTTTAAATTTTATTTTATTTTATTTTATTTTATTT 5666
1585 CTGATATGTTTCAATTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1644
5667 AAAATTTATTTATTTTATTTTATTTTAAATTAATTAATTAATTAATTAATTAATTA 5726
1645 AGCAATTTTCAACTGTATGTACATTTTAAATTAATTAATTAATTAATTAATTAATTA 1696
5727 AATTAACATATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATA 5778

RESULT 6

US-08-647-397-1
Sequence 1, Application US/08647397
Patent No. 5972702

GENERAL INFORMATION:
APPLICANT: Beier, David R.
APPLICANT: Brady, Kevin P.
TITLE OF INVENTION: OSTEOCLAST TRANSPORTER
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESS: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02210

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25

/
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/08/647,397
 / FILING DATE:
 / CLASSIFICATION: 424
 / ATTORNEY/AGENT INFORMATION:
 / NAME: Gates, Edward R.
 / REGISTRATION NUMBER: 31,616
 / REFERENCE/DOCKET NUMBER: B0801/7048
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: 617-720-3500
 / TELEFAX: 617-720-2441
 / INFORMATION FOR SEQ ID NO: 1:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 2102 base pairs
 / TYPE: nucleic acid
 / STRANDEDNESS: double
 / TOPOLOGY: linear
 / MOLECULE TYPE: cDNA
 / HYPOTHETICAL: NO
 / ANTI-SENSE: NO
 / FRAGMENT TYPE: internal
 / ORIGINAL SOURCE:
 / ORGANISM: Mus musculus
 / FEATURE:
 / NAME/KEY: CDS
 / LOCATION: 120..1733
 /
 / US-08-647-397-1

Query Match 3.1%; Score 53.2; DB 2; Length 2102;
 Best Local Similarity 56.5%; Pred. No. 0.00034;
 Matches 122; Conservative 0; Mismatches 88; Indels 6; Gaps 1;
 QY 479 TTCCTCAGTGAATGGGACTATCCACAGCACAAGTGAGGCAGACACAGAACCTGTGGTGG 538
 Db 349 TGCATCTGCCAACCCAGTCTTCCCAATGACACCCAGGGGCCACCGAGCAATGCTGG 408
 QY 539 ATGGCTGGGTATGATCAAGACTACTTCCCTTCACACATTTGTGACAAATGTGACCTGG 598
 Db 409 ATGGCTGGATCT-----ACACAGCAGCAGAGACACCACTTGTGACAGTGGGACTGG 462
 QY 599 TATGTGATATCAGTCACTCAATCAGTGGTTCATCTTCTCTCTGCTGGAATGCTGG 658
 Db 463 TATGGCTGCCAACAACTGAAGGAGATGGCAGCTCAGTCTTCAATGCGAGTACTGG 522
 QY 659 TGGGAGCAGCATAGTGGGCTCTCTCAGACAGGT 694
 Db 523 TTGGAGGACCTGTTTGGGAACTGTGCAGACAGGT 558

RESULT 7
 US-08-487-826B-13
 / Sequence 13, Application US/08487826B
 / Patent No. 5993827
 / GENERAL INFORMATION:
 / APPLICANT: Sim, Kim L.
 / APPLICANT: Chitnis, Chetan
 / APPLICANT: Miller, Louis H.
 / APPLICANT: Peterson, David S.
 / APPLICANT: Su, Xin-zhaun
 / APPLICANT: Wellens, Thomas E.
 / TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
 / TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
 / NUMBER OF SEQUENCES: 45
 / CORRESPONDENCE ADDRESS:
 / ADDRESS: Knobbe Martens Olson & Bear
 / STREET: 620 Newport Center Drive 16th Floor
 / CITY: Newport Beach
 / STATE: California
 / COUNTRY: US
 / ZIP: 92660
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Floppy disk
 / COMPUTER: IBM PC compatible

/
 / OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: PatentIn Release #1.0, Version #1.25
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/08/487,826B
 / FILING DATE: 10-SEP-1993
 / CLASSIFICATION: 435
 / ATTORNEY/AGENT INFORMATION:
 / NAME: Israelsen, Ned
 / REGISTRATION NUMBER: 29,655
 / REFERENCE/DOCKET NUMBER: NIH121.001CPI
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: (619) 235-8550
 / TELEFAX: (619) 235-0176
 / INFORMATION FOR SEQ ID NO: 13:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 19124 base pairs
 / TYPE: nucleic acid
 / STRANDEDNESS: single
 / TOPOLOGY: linear
 / MOLECULE TYPE: cDNA
 / HYPOTHETICAL: NO
 / ANTI-SENSE: NO
 /
 / US-08-487-826B-13

Query Match 2.9%; Score 49.6; DB 2; Length 19124;
 Best Local Similarity 43.8%; Pred. No. 0.007;
 Matches 217; Conservative 0; Mismatches 279; Indels 0; Gaps 0;
 QY 1021 AAATTCAGAAAGGTTACAAATTTATAGATACATGAATCTCAATTAATTAATTCGCATTAATTTGGCAAT 1080
 Db 15481 AATTTATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 15540
 QY 1081 AGCAAGAACATATATATAGATACATGAATCTCAATTAATTAATTCGCATTAATTTGGCAAT 1140
 Db 15541 AAAATTTATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 15600
 QY 1141 TATTTCAAAATTAATCTTTGGGGGACATGTAATCTCTTGAGCAATCTGATATTTTGGGAA 1200
 Db 15601 AATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 15660
 QY 1201 GTCCTTTAAAGTTACAAATTTATCAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 1260
 Db 15661 GAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 15720
 QY 1261 AAAAGAAATCAGAAATTAGGATGGCTGGCTGTATGAGCAATCTGATATTTTGGGAA 1320
 Db 15721 AAAATATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 15780
 QY 1321 TCATAAAGTTGCAAAAGTCAAAACATATCTGTACATGCAACCAAGAAATCAAAATAAATAAATAAATAAATAAATA 1380
 Db 15781 AAAAATAATATACATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 15840
 QY 1381 AGAATAGAGACCTATATAAATGCAATTTAATAACATGATATCTTTGACATATAAATAAATAAATAAATAAATAAATA 1440
 Db 15841 AAAATTTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 15900
 QY 1441 GAAAAACGGAAGATTAGATCTACTAATAAATCAATGCTATCTCTTTGTAATAACAGTCACT 1500
 Db 15901 AAAAATAATTAATGAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 15960
 QY 1501 AAATGATGTTAGTTAC 1516
 Db 15961 AAAATTAATACATGC 15976

RESULT 8
 US-08-731-722-5
 / Sequence 5, Application US/08731722
 / Patent No. 5961971
 / GENERAL INFORMATION:
 / APPLICANT: Martin, Frank N.
 / TITLE OF INVENTION: Biocontrol of Fungal Soilborne Pathogens
 / TITLE OF INVENTION: By Pythium oligandrum

NUMBER OF SEQUENCES: 8
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Saliwanchik & Saliwanchik
 STREET: 2421 N.W. 41st Street, Suite A-1
 CITY: Gainesville
 STATE: FL
 COUNTRY: US
 ZIP: 32606-6669
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA: US/08/731,722
 APPLICATION NUMBER: US/08/731,722
 FILING DATE:
 CLASSIFICATION: 424
 ATTORNEY/AGENT INFORMATION:
 NAME: Whitlock, Ted W.
 REGISTRATION NUMBER: 36,965
 REFERENCE/DOCKET NUMBER: UF-161
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 352-375-8100
 TELEFAX: 352-372-5800
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1186 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: 23-5
 US-08-731-722-5

Query Match 2.9%; Score 48.8; DB 2; Length 1186;
 Best Local Similarity 45.7%; Pred. No. 0.0035;
 Matches 290; Conservative 0; Mismatches 332; Indels 12; Gaps 3;

1064 TTTTTCCTTACACAGCAAGACATATATTGATACATGATCTTCATTAATATAT 1123
 162 TTTTATTAATTAATTAAGGAATTAATTAAGAAAGCAATCAATTAACGAATTA 221
 1124 GGATTAATTTGATTTATTTTCAAAATTAATCTGTGGGACATGATCTCTTGACAA 1183
 222 AGCAATGATTCAGTTAAAGCAAACTTAATATGCTGTTCTTTGTAATCTTGTGTA 281
 1184 TCTGATATTTTGGGAAGTCTTTTAAAGTTACAAATTTATCAATTAATTAATTA 1243
 282 AGAAGGTTTCTGAATTAATCTTAATCAATTAATTAATTAATTAATTAATTAAT 341
 1244 TAAAGATGATTCAGAAACAAAGAAATTCAGAAATTAAGATGTGGCTGCTGTATGA 1303
 342 GCACCTGCTAATCCAAATGAGTAACTCAACCAAAATTTTGAAGATTGT-AAATTA 400
 1304 AGACCAATGATGATTAATTAAGTTGCAAAAGTCAAAACATCTGTACATGCAACCA 1363
 401 CATATTAATGATTAATTAATTAATTTTAA--GATATTAATCTTTTAAAAAAT 457
 1364 GAAATCAAAATTAATTCAGAAATGAGACCTATATTAATGATTAATTAATTAATTA 1423
 458 AAATGAAATTAATCTTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 517
 1424 TGACATTAATGATTCAGAAACGGAAGATTAATTAATTAATTAATTAATTAATTA 1483
 518 ATATTTTAAATTAATGATCTGATTAATTAATTAATTAATTAATTAATTAATTA 577
 1484 TTGTAATTAATGATGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1543
 578 ATAGAAATTTCTCATTAAGAAAGTTTATTTTTCATTAAGAAATTAATTAATTA 637
 1544 TTTCTTTGTAATTTTCTCTCTGTAATTTTAAACAATAGCTGGATTAATTAATTA 1603

Db 638 TCTATTTTAAATTAATTCGTAATCTTTAATTAAGAAATA-----AATTAATTAAT 689
 Qy 1604 TATAAGATATTTGTTCAAAATGAAGGCAAGCCAGGTTCGACATTTTCAAACTGTAT 1663
 Db 690 TTATTAATTAATTAATTTCTTATTAGAAATTTTCATTTTAATTTTAAAAAGTTAT 749
 Qy 1664 GTACATTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1697
 Db 750 ATATCTTTAAAAAGATATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 783

RESULT 9
 US-08-998-416-541/C
 Sequence 541, Application US/08998416
 Patent No. 6239264

GENERAL INFORMATION:
 APPLICANT: Philippsen, Peter
 APPLICANT: Pohlmann, Rainer
 APPLICANT: Steiner, Sabine
 APPLICANT: Mohr, Christine
 APPLICANT: Wendland, Jurgen
 APPLICANT: Knechtle, Philipp
 APPLICANT: Redischung, Corinne
 TITLE OF INVENTION: GENOMIC DNA SEQUENCES OF ASHBYA GOSSEYII
 TITLE OF INVENTION: AND USES THEREOF
 NUMBER OF SEQUENCES: 1152
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: No. 6239264artis Corporation
 STREET: 3054 Cornwallis Road
 CITY: Research Triangle Park
 STATE: No. 6239264th Carolina
 COUNTRY: USA

ZIP: 27709

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/998,416
 FILING DATE: 24-DEC-1997

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: CH 0016/97

FILING DATE: 31-DEC-1996

ATTORNEY/AGENT INFORMATION:

NAME: Meigs, J. Timothy

REGISTRATION NUMBER: 38,241

REFERENCE/DOCKET NUMBER: PF/5-30306/A/CGCI976

TELECOMMUNICATION INFORMATION:

TELEPHONE: 919-541-8587

TELEFAX: 919-541-8689

INFORMATION FOR SEQ ID NO: 541:

SEQUENCE CHARACTERISTICS:

LENGTH: 821 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

ORIGINAL SOURCE:

ORGANISM: FAGI378RP

US-08-998-416-541

Query Match 2.8%; Score 47.8; DB 4; Length 821;

Best Local Similarity 47.7%; Pred. No. 0.0054;

Matches 124; Conservative 0; Mismatches 136; Indels 0; Gaps 0;

Qy 1445 AACGGAAGATTTGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1504
 Db 732 AAGGTTAATNTTAATGAATTAATTAATTAATTAATTAATTAATTAATTAATTA 673
 Qy 1505 GATGTTAGTACTTTCCAGGTGGAATTTTAATTAATTAATTTTCTGTAATTTTCTCTC 1564

Db	672	AATNANAATCATTATTATATATATTTTCATTAATAATATTTAAATNTNTTAAAAATTAATTATAA	613
Qy	1565	TCTATATTTTAAACAAATAGCTGGTATAGTTTACAATATTATAAGAGATATTTGTTCAAATTT	1624
Db	612	TTNATGGTATAAATAATTAGTATTATTTATTTATTTATTTATTTATTTAGATGTTACCAACC	553
Qy	1625	GAAGGGCAAAAGCCAGGTTTCAGCAATTTTCAAACGTATGTACATTTTAATAAAATAACTA	1684
Db	552	ATAATGCATAGCATTTAGGGGGATGTACCTTAACCTCTCAATTAATAAGTTATTATAATTA	493
Qy	1695	TAAATTAATAAAATTTATTTT	1704
Db	492	TTAAATTTAATTTTAAATTT	473

```

RESULT 10
US-09-134-001C-1524
; Sequence 1524, Application US/09134001C
; Patent NO. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GFC-007
; CURRENT APPLICATION NUMBER: US/09/134.001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 1524
; LENGTH: 1983
; TYPE: DNA
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-1524

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Query Match	2.8%;	Score 47.6;	DB 4;	Length 1983;
Best Local Similarity	49.6%;	Pred. No. 0.0088;		
Matches 122;	Conservative 0;	Mismatches 124;	Indels 0;	Gaps 0;
QY 1301	TGAAGCACCATTGTCATGAATTCATAAAGTTGCAAAAAGTCAAAACAATACTGTACATGCAA	1360		
Db				
QY 96	TGAAGATTTCATCTAATATAAATACAAATTCAGATTAAATGGAACAACATCAATCACAAA	155		
Db				
QY 1361	CCAGAAATCAAAATATAATCCGAAATAGACACCTATATATAATGCGATTTAATACATGATAC	1420		
Db				
QY 156	AGAAACATCAAAACAATCTGAAAAAGATGAATTTAAACAACGATGATTTCTAAACACGATTC	215		
Db				
QY 1421	TTTTGCATATAATAGCCATTGGAAAACGGAAAGATTAGATACTAAATAACATTGCACATTC	1480		
Db				
QY 216	TGATGATAAAAAAGCAGCTTCTGCACAGGACAAAGACTCTAATAAACCATTTATCAGC	275		
Db				
QY 1481	TCCTTTGTAATACAGTCACATAAATGATGTAGTTACTTTTCCATGGTGGAAATTTTAATTA	1540		
Db				
QY 276	TGACTCAACACATCGTAACATATAAAATGAAAGATGATAATTTAGTTGATCAACATTTATGA	335		
Db				
QY 1541	CTTTTTT	1546		
Db				
QY 336	TAATTT	341		
Db				

```

RESULT 11
US-08-883-795A-36
; Sequence 36, Application US/08883795A
; Patent No. 5985607
; GENERAL INFORMATION:
; APPLICANT: Delcuve, Genevieve
; APPLICANT: Awang, Gregor
; TITLE OF INVENTION: Recombinant DNA Molecules and Expression
; TITLE OF INVENTION: Vectors for Tissue Plasminogen Activator
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
;

```

ADDRESSEE: BERESKIN & PARR
STREET: 40 King Street West
CITY: Toronto
STATE: Ontario
COUNTRY: Canada
ZIP: M5H 3Y2

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/883,795A
FILING DATE: 27-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Gravelle, Micheline
REGISTRATION NUMBER: 40,251
REFERENCE/DOCKET NUMBER: 7841-062
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 364-7311
TELEFAX: (416) 361-1398
INFORMATION FOR SEQ ID NO: 36:
SEQUENCE CHARACTERISTICS:
LENGTH: 665 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
IMMEDIATE SOURCE:
CLONE: Rh 32
US-08-883-795A-36

Query Match	2.7%;	Score 45.6;	DB 2;	Length 665;
Best Local Similarity	50.0%;	Pred. No. 0.018;		
Matches 170;	Conservative 0;	Mismatches 164;	Indels	
QY 1367	ATCAAAATAAAATCCAGAAATAGAGACCTATATAAATGCATTATAATACATGATACACT			
Db	26 ATAATTAAATATTTTATAATTAAATATTTATAATTTAAATATTTATAATTTAAAT			
QY 1427	CATAATAAGCCATTGGAAAACGGAAAGATTAGATACTAAATAACAATTGACTATCT			
Db	86 ATAATTAAATATTTATAATTAAATATTTATAATTAAATATTTATAATTAAAT			
QY 1487	TAAATACAGTCACT--AAATGATGTTAGTTACTTTTCCATGGTGGAAATTTTAATTT			
Db	146 ATAATTAAATATTTATAATTAAATATTTTATAAATTTAAATATTTATAATTTAAAT			
QY 1545	TTCTTTGTAATTTTCTCTGCTGATATTTTAAACAAATAGCTGGTATAGTTTACAA			
Db	206 ATAATTAAATATTTATAATTAAATATTTTATAATTTAAATATTTATAATTTAAAT			
QY 1605	ATAAAGATATTCTTCAAAATTTGAAGGGCAAGGCCAGGTTTCAGCAATTTTCAAACACT			
Db	266 ATAATTAAATATGTTTATAATTAA--ATATTTTATAATTAAATGTTTATAATTT			
QY 1665	TACATTTTAAATAAATCACTATAATAATTTAAATAATTTATATTTT 1704			
Db	322 TTTTATAAATTTAAATGTTTATAATTTACATATTTTATAATTTTATAATTT 36			

RESULT 12
US-08-451-405A-2
; Sequence 2, Application US/08451405A
; Patent No. 5736358
; GENERAL INFORMATION:
; APPLICANT: FASEL, NICOLAS JOSEPH
; APPLICANT: REYMOND, CHRISTOPHE DOMINIQUE
; TITLE OF INVENTION: DICTYOSTELID EXPRESSION VECTOR AND
; TITLE OF INVENTION: METHOD FOR EXPRESSING A DESIRED PROTEIN

Query Match	2.6%	Score 44.6	DB 1	Length 731
Best Local Similarity	43.7%	Pred. No. 0.034		
Matches 197; Conservative	0	Mismatches 254	Indels 0	Gaps 0

RESULT 13
US-07-867-106-2/c
: Sequence 2, Application US/07867106

```

; GENERAL INFORMATION:
;
; APPLICANT: Slade, Martin B
;
; APPLICANT: Chang, Andy C M
;
; APPLICANT: Williams, Keith L
;

```

Query Match	2.6%	Score 44	DB 1	Length 5852
Similarity	49.7%	Pred. No. 0.11		
Best Local				
Matches 196	Conservative	0	Mismatches 190	Indels 8
				Gaps 3

[illegible]

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OM nucleic - nucleic search, using sw model

Run on: January 6, 2003, 20:58:28 ; Search time 39.0945 Seconds
(without alignments)
8894.701 Million cell updates/sec

Title: US-09-674-235-10
Perfect score: 804
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Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 381593 seqs, 216252194 residues

Total number of hits satisfying chosen parameters: 763186

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: Published Applications NA:

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- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEM_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
- 6: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
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- 8: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/2/pubpna/US09_NEM_PUB.seq:*
- 10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	208.8	26.0	1662	9 US-10-095-139-6	Sequence 6, Appli
2	208.8	26.0	2865	9 US-10-095-139-4	Sequence 4, Appli
3	165.2	20.5	265	10 US-09-960-352-3386	Sequence 3386, Ap
4	160.4	20.0	540	10 US-09-864-761-8860	Sequence 8860, Ap
5	136.2	16.9	339	10 US-09-864-761-25526	Sequence 25526, A
6	130.8	16.3	1316	9 US-10-050-786-3	Sequence 3, Appli
7	110.2	13.7	401	10 US-09-833-381-2007	Sequence 2007, Ap
8	89.8	11.2	2227	10 US-09-917-800A-1646	Sequence 1646, Ap
9	78.6	9.8	370	10 US-09-983-965-4511	Sequence 4511, Ap
10	62.6	7.8	1888	10 US-09-798-743A-4	Sequence 2, Appli
11	59.4	7.4	1831	10 US-09-798-743A-2	Sequence 2, Appli
12	43.6	5.4	454	10 US-09-764-887-47	Sequence 376, App
13	43.6	5.4	796	10 US-09-764-887-376	Sequence 945, App
14	38.4	4.8	810	10 US-09-974-300-945	Sequence 815, App
15	38	4.7	275	10 US-09-878-574-8151	Sequence 11064, A
16	35.6	4.4	406	10 US-09-960-352-11064	Sequence 456, App
17	35.6	4.4	2189	10 US-09-925-300-456	Sequence 154, App
18	35	4.4	302250	10 US-09-962-832-154	Sequence 45, Appl
19	34.6	4.3	395	9 US-09-894-844-45	Sequence 45, Appl

20	32.2	4.0	725	10 US-09-910-943-70	Sequence 70, Appl
21	4.0	4.0	453	10 US-09-560-863-967	Sequence 967, App
22	3.2	4.0	1135	10 US-09-974-300-1695	Sequence 1695, Ap
23	3.6	3.9	4527	10 US-09-901-940-3	Sequence 3, Appli
24	31.6	3.9	4857	10 US-09-954-456-733	Sequence 733, App
25	31.2	3.9	437	10 US-09-864-761-4863	Sequence 4863, Ap
26	31.2	3.9	852	10 US-09-815-242-9965	Sequence 9965, Ap
27	31.2	3.9	25871	10 US-09-798-743A-5	Sequence 5, Appli
28	31.2	3.9	197997	10 US-09-822-246-3	Sequence 3, Appli
29	31	3.9	1312	10 US-09-764-847-1515	Sequence 1515, Ap
30	31	3.9	2676	9 US-09-938-842A-1919	Sequence 1919, Ap
31	31	3.9	62804	12 US-10-096-960-3	Sequence 3, Appli
32	30.8	3.8	1870	9 US-09-938-842A-2756	Sequence 2756, Ap
33	30.6	3.8	406	10 US-09-983-965-5140	Sequence 5140, Ap
34	30.6	3.8	2000	9 US-09-938-842A-4409	Sequence 4409, Ap
35	30.6	3.8	2019	10 US-09-801-368-199	Sequence 199, App
36	30.6	3.8	174493	10 US-09-804-471A-3	Sequence 48, Appl
37	30.4	3.8	349	10 US-09-853-386-48	Sequence 176, App
38	30.4	3.8	432	9 US-09-924-400-176	Sequence 176, App
39	30.4	3.8	432	10 US-09-810-936-176	Sequence 176, App
40	30.4	3.8	432	10 US-09-429-755-176	Sequence 4547, Ap
41	30.4	3.8	1563	10 US-09-974-300-4547	Sequence 3, Appli
42	30.4	3.8	3820	10 US-09-954-043-3	Sequence 87, Appl
43	30.4	3.8	3980	12 US-10-002-600-87	Sequence 890, Ap
44	30.2	3.8	305	10 US-09-960-352-890	Sequence 4018, Ap
45	30	3.7	278	10 US-09-923-876-4018	

ALIGNMENTS

RESULT 1
US-10-095-139-6
Sequence 6, Application US/10095139
Patent No. US2002016537A1
GENERAL INFORMATION:
APPLICANT: Curtis, Rory A.J.
APPLICANT: Millenium Pharmaceuticals, Inc.
TITLE OF INVENTION: 3854, 57301, and 58324, Human Organic
FILE REFERENCE: MP101-0171RNM
CURRENT FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US/10/095,139
CURRENT FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: 60/275,172
NUMBER OF SEQ ID NOS: 24
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6
LENGTH: 1662
TYPE: DNA
ORGANISM: homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)...(1662)
OTHER INFORMATION: n represents ambiguous nucleotides
NAME/KEY: misc_feature
LOCATION: (1)...(1662)
OTHER INFORMATION: n = A,T,C or G
US-10-095-139-6
Query Match
Best Local Similarity 63.2%; Pred. No. 1.2e+53;
Matches 321; Conservative 0; Mismatches 187; Indels 0; Gaps 0;
QY 1 ATGGCCTTGAGAGCTCTTGAAGTGAAGGCTTGAGGATTGAGAGCTTCAT 60
DB 1 ATGGCCTTGAGAGCTCTTGAAGTGAAGGCTTGAGGATTGAGAGCTTCAT 60
QY 61 CTGCTTTTCTCTCCCTCTCATGTATTAATCCCTCATATCTAGAGACTTT 120
DB 61 ACAGTGGCTGTATGCTTCATCATGTGCTGTATCCAGAGCATCTGAGACTTC 120

QY 121 GCTGAGCCATCTCTGGTCTATCGTTGGTCCATGCTGGGACAAATATCTGGATCT 180
Db 121 TCGGCGCGCTGCCAGCCACCGTCTGGGCAACCCCTCTGGGACACAGCAGCGCTCAG 180
QY 181 GGTAAATGAACCTGGAATCTCTAGTGAAGATGCCCTCTTTGAGAATCTCTATCCCACTAGAC 240
Db 181 GCCAGCATCTAGGGAGCTTGAGTCTGAGGCCCTCTCTGCTATTTCCATCCCGCCGGGC 240
QY 241 TCAATCTGAGGCCAGAGAGTGTGCTGCTTTGTGTCATCCCACTAGTCTTTTCAC 300
Db 241 CCCAACAGAGGCCACACAGTGTGCGCGCTTCCGCGAGCACAGTGGCAGCTTTGGAC 300
QY 301 CTGAATGGGACTATCCACAGCAAGTGAAGGAGAGACAGAAACCTGTGGAATGGCTGG 360
Db 301 CCCAATGCCAGGCCACAGTGTGAGCGAGGCCGACAGCGAGCGGTGTGGAATGGCTGG 360
QY 361 GTATATGATCAAGCTACTTCCCTTCGACCAATGTGACTAAGTGGGACCTGGTATGTAT 420
Db 361 GTCTATGACCGAGCATCTTCACTCCCAATGCTGGCCAAAGTGAACCTCTGTGTGAC 420
QY 421 TATCAGTCACTGAAATCAGTGTCTCAATTCCTACTTCTGACTGGAATGCTGGTGGAGGC 480
Db 421 TCTCATGTCTGAAGCCCATGCGCAGTCCATCTACCTGGTGGGATTTCTGGTGGAGCT 480
QY 481 ATCATAGTGGCCATGTCTCAGACAGGT 508
Db 481 GCTGCGTGGCGCCCTGCCTCAGACAGGT 508

RESULT 2

US-10-095-139-4

; Sequence 4, Application US/10095139

; Patent No. US20020165357A1

; GENERAL INFORMATION:

; APPLICANT: Curtis, Rory A.J.

; APPLICANT: Silos-Santiago, Inc.

; TITLE OF INVENTION: 38534, 57301, and 58324, Human Organic

; FILE REFERENCE: MP101-017P1RNM

; CURRENT APPLICATION NUMBER: US/10/095,139

; PRIOR FILING DATE: 2002-03-11

; NUMBER OF SEQ ID NOS: 24

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 4

; LENGTH: 2866

; TYPE: DNA

; ORGANISM: homo sapiens

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (365)...(2026)

; OTHER INFORMATION: "n" represents ambiguous nucleotides

; NAME/KEY: misc feature

; LOCATION: (1)...(2866)

; OTHER INFORMATION: n = A,T,C or G

US-10-095-139-4

Query Match 26.0%; Score 208.8; DB 9; Length 2866;
Best Local Similarity 63.2%; Pred. No. 1.6e-53;
Matches 321; Conservative 0; Mismatches 187; Indels 0; Gaps 0;
QY 1 ATGGCTTTGAGAGCTCTGAGTCAAGTGGAGGCTTGGGAGATTTCAGATGCTTCAT 60
Db 365 ATGGCATTTTCTGAATCTCTGAGCTCTGAGTGGGCTGGGAGGTTCCAGGTTCTCCAG 424
QY 61 CTGGTTTTATPCTTCCCTCTCTCATGTTATTAATCCCTCATATCTGCTAGAGACTTT 120
Db 425 ACGATGGCTCTCATGCTTCCATCATGCTGTGTACCCAGAGCATGCTGGAGAACTTC 484
QY 121 GCTCAGCCATCTCTGGTCTATCGTTGGTGGTCCATGCTGGACAAATATCTGGATCT 180

Db 485 TCGGCGCGCTGCCAGCCACCGCTGCTGGGCAACCCCTCTTGAGACACAGCAGCGCTCAG 544
QY 181 GGTAAATGAACCTGGAATCTCTAGTGAAGATGCCCTCTTTGAGAATCTCTATCCCACTAGAC 240
Db 545 GCCAGCATCTAGGAGCTTGAGTCTGAGGCCCTCTCTGGCTATTTCTCATCCCGCCGGGC 604
QY 241 TCAATCTGAGGCCAGAGAGTGTGCTGCTTTGTGTCATCCCACTAGTGGAGCTTTTCAC 300
Db 505 CCCAACAGAGGCCACAGTGGCGCGCTTCCGCGAGCACAGTGGCAGCTCTTTGGAC 664
QY 301 CTGAATGGGACTATCCACAGCAAGTGAAGGAGAGACAGAAACCTGTGGAATGGCTGG 360
Db 665 CCCAATGCCAGGCCACAGTGGGCGAGGCCGACAGCGAGCCCTGTGTGATGGCTGG 724
QY 361 GTATATGATCAAGCTACTTCCCTTCGACCAATGTGACTAAGTGGGACCTTGTATGTAT 420
Db 725 GTCTATGACCGAGCATCTTCACTCCCAATGCTGGCCAAAGTGAACCTCTGTGTGAC 784
QY 421 TATCAGTCACTGAAATCAGTGTGTTCAATTCCTACTTCTGACTGGAATGCTGGTGGAGGC 480
Db 785 TCTCATGTCTGAAGCCCATGCGCAGTCCATCTACCTGGTGGGATTTCTGGTGGAGCT 844
QY 481 ATCATAGTGGCCATGTCTCAGACAGGT 508
Db 845 GCTGCGTGGCGCCCTGCCTCAGACAGGT 872

RESULT 3

US-09-960-352-3386/c

; Sequence 3386, Application US/09960352

; Patent No. US20020137139A1

; GENERAL INFORMATION:

; APPLICANT: Warren, Wesley C.

; APPLICANT: Tao, Nengbing

; APPLICANT: Byatt, John C.

; APPLICANT: Mathialagan, Nagappan

; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION ANI

; FILE REFERENCE: 16511.006/37-21(10298)C

; CURRENT APPLICATION NUMBER: US/09/960,352

; CURRENT FILING DATE: 2001-09-24

; NUMBER OF SEQ ID NOS: 15112

; SEQ ID NO 3386

; LENGTH: 265

; TYPE: DNA

; ORGANISM: Bos taurus

; OTHER INFORMATION: Clone ID: 15-LIB3058-028-Q1-K1-D3

US-09-960-352-3386

Query Match 20.5%; Score 165.2; DB 10; Length 265;
Best Local Similarity 77.5%; Pred. No. 8.8e-41;
Matches 200; Conservative 0; Mismatches 58; Indels 0; Gaps 0;
QY 72 TCTTCCCTCTCTCATGTTATTAATCCCTCATATATCTGCTAGAGAACTTTGCTGACCCAT 131
Db 264 TTTTCTTTTACATGATAGTAGTCTGTCACTCATTTGCTGGAGAACTTCACTGCAAGCCGT 205
QY 132 TCCTGGTCATCGTTGCTGGGTCCACATGCTGGACAATAATCTGGATCTGGTAATGAAAC 191
Db 204 TCCTGGTCATCACTGCTGGGTCCACAATCTTGATAATGCCACTGTCTCTGATTAATGATAC 145
QY 192 TGAATCTCTCAGTGAAGATGCCCTCTTGAGAACTCTATCCCACTAGACTCAAAATCTGAG 251
Db 144 TGGATCTCTCAGCCCTGATGCTCTGCTGAGAACTTCCATCCCACTGGATTCAAACTCAA 85
QY 252 GCAGAGAGTGTGCTGCTTTGTCATCCCACTGGCAGCTTTTACCTGGAATGGAGC 311
Db 84 GCCAGAGAAATGTGCTGCTTCTCCATCCCACTGGCAGCTTCTTCACTGGAATGAGAC 25
QY 312 TATCCACAGCACAAAGTGA 329
Db 24 CTTCCCCAACATGACTGA 7


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RESULT 6
US-10-050-786-3
/ Sequence 3, Application US/10050786
/ Patent No. US2002015539A1
/ GENERAL INFORMATION:
/ APPLICANT: Ruben et al.
/ TITLE OF INVENTION: Calcium Channel Polym
/ FILE REFERENCE: P7013P1C1
/ CURRENT APPLICATION NUMBER: US/10/050,786
/ CURRENT FILING DATE: 2002-01-18
/ PRIOR APPLICATION NUMBER: US 09/774,028
/ PRIOR FILING DATE: 2001-01-31
/ PRIOR APPLICATION NUMBER: PCT/US00/20392
/ PRIOR FILING DATE: 2000-07-27
/ PRIOR APPLICATION NUMBER: US 60/145,958
/ PRIOR FILING DATE: 1999-07-28
/ PRIOR APPLICATION NUMBER: US 60/149,446

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Matches	164;	Conservative	0;	Mismatches	56;	Indels	2;	Gaps	2;
<p> Matches 164; Conservative 0; Mismatches 56; Indels 2; Gaps 2; </p>									

QY	315	CCACAGCAAAAGTCAGGCGAGAC-AGAACCCCTGTGTGGATGGCTGGGTATATGA-TCAA	372
Db	390	CCCCAACAAATAGCCAGACACGNNAGCCCTGTGTGGATGGCTGGGTATACGACAGAN	331
QY	373	AGCTACTTCCCTTCGACCAATTGCTAAGTGGACCTGGGTATGTGATTATCAGTCACTG	432
Db	330	AGCTCTTCTCTCCACCATCGTACTGATGGGACCTGGTATGTGAATCTCAGTCACTA	271
QY	433	AAATCAGTGGTTCAATTCTTACTTCTGACTGGAATGCTGGTGGGAGGCATCATAGTGGC	492
Db	270	AAATCAATGGTTCAATCCCTATTATTTAGGTGGGTCACTGCTGGGAGGTCTAATATATGSC	211
QY	493	CATGTCCTCAGACAGGTGGCTGGTGGAACTCGTCGGTGGTTG	534
Db	210	CATCTTTTCAGACAGCTCCGTGCTCAGTCTCTTTGGTCCGGTG	169

RESULT 8

US-09-917-800A-1646
; Sequence 1646, Application US/09917800A
; Patent No. US20020119462A1
; GENERAL INFORMATION:
; APPLICANT: Mendrick, Donna
; APPLICANT: Porter, Mark
; APPLICANT: Johnson, Kory
; APPLICANT: Castle, Arthur
; APPLICANT: Elashoff, Michael
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Molecular Toxicology Modeling
; FILE REFERENCE: 44921-5038-US
; CURRENT APPLICATION NUMBER: US/09/917,800A
; PRIOR FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: US 60/222,040
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 60/222,880
; PRIOR FILING DATE: 2000-11-02
; PRIOR APPLICATION NUMBER: US 60/290,029
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/290,645
; PRIOR FILING DATE: 2001-05-15
; PRIOR APPLICATION NUMBER: US 60/292,336
; PRIOR FILING DATE: 2001-05-22
; PRIOR APPLICATION NUMBER: US 60/295,798
; PRIOR FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: US 60/297,457
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/298,884
; PRIOR FILING DATE: 2001-06-19
; PRIOR APPLICATION NUMBER: US 60/303,459
; NUMBER OF SEQ ID NOS: 1740
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1646
; LENGTH: 2227
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020119462A1 NM_017224
US-09-917-800A-1646

Query Match 11.2%; Score 89.8; DB 10; Length 2227;
Best Local Similarity 52.7%; Pred. No. 3.1e-17;
Matches 267; Conservative 0; Mismatches 207; Indels 33; Gaps 2;

1 ATGGCCTTTGAGAGCTCTTGAGTCAAGTGGAGGCTTGGAGATTTCAGATGCTTCAT 60
254 ATGGCCTTCAATGACCTCTGCAAAACAGTGGGGCGTGGACGCTTCAAGTTGATCCAG 313
61 CTGGTTTATTTCTCCCTCTCTCATGTTATTAATCCCTCATATCTGCTAGAGACTTT 120
314 GTCAACCATGAGTGGTGTCCCTCTACTGCTGATGCTTCCACMACACCTTGACAACTTC 373
121 GCTGCACCACTTCTGTCATGCTTGTGCTGCTGCAATGCTGGAACAATAATGATGATCT 180
374 ACTGCGCTATCCCCCTCATCACTGCGCCGACC----- 408
181 GGTATGAATCTGAATCTCATGTAAGATGCTCTTGGAGATCTATCCCACTAGAC 240
409 -----TCCCATGCAATCTCAGCAAAAGATGAGGTGGAAGCTGCGCTGCGCTGAGC 463
241 TCAATCTGAGCCAGAGAGTGTGTGCTTTGTCATCCCACTGAGGAGCTTCTTAC 300
464 AAGCAAGGACAACCGAATGTGCTCTCGCTTTACTTCCCAAGGGAGCCACCCCTTT 523
301 CTGATGAGGAGTATCCACAGCAGCAAGTGGAGCAGACACAGAACCCCTGTGAGTGGCTGG 360
524 TACATGAGCAC---AGAGCCATATGACACAGAGTACAGAGCCCTGTCATGATGCTGG 580
361 GTATATGATCAAGGTAATCTTCCCTTGCACCATTTGACTAAGTGGAGCTGTATGTAT 420

RESULT 9

US-09-983-965-4511
; Sequence 4511, Application US/09983965
; Patent No. US20020137160A1
; GENERAL INFORMATION:
; APPLICANT: Warren, Wesley C.
; APPLICANT: Tao, Nengping
; APPLICANT: Byatt, John C.
; APPLICANT: Mathialagan, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
; FILE REFERENCE: 37-21(10297)C
; CURRENT APPLICATION NUMBER: US/09/983,965
; PRIOR FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: US 09/465,231
; PRIOR FILING DATE: 1999-12-15
; PRIOR APPLICATION NUMBER: US 60/113,678
; PRIOR FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 5912
; SEQ ID NO 4511
; LENGTH: 370
; TYPE: DNA
; ORGANISM: Bos taurus
; FEATURE:
; OTHER INFORMATION: Clone ID: 08-LIB34-012-Q1-E1-B7
US-09-983-965-4511

Query Match 9.8%; Score 78.6; DB 10; Length 370;
Best Local Similarity 57.6%; Pred. No. 2.9e-14;
Matches 141; Conservative 0; Mismatches 104; Indels 0; Gaps 0;

1 ATGGCCTTTGAGAGCTCTTGAGTCAAGTGGAGGCTTGGAGATTTCAGATGCTTCAT 60
126 ATGGGCTAGCTGAGACATCTAGCACTTAGGGGATGGTATATCTTCAAAATCATGACAG 185
61 CTGGTTTATTTCTCCCTCTCTCATGTTATTAATCCCTCATATCTGCTAGAGACTTT 120
186 ATGATTAATCTTCTCTCTCTGCAAGCTCATCTGCTGCGGTGGATTTGTTAACTTC 245
121 GCTGCACCACTTCTGTCATGCTTGTGCTGCTGCAATGCTGGAACAATAATGATGATCT 180
246 AGGATGATGATCATATCATCAAGCTTGCAAGGCTCCATATCTGATTTGACACAGCTCT 305
181 GGTATGAATCTGAATCTCATGTAAGATGCTCTTGGAGATCTATCCCACTAGAC 240
306 GAAGTAGTACAGAGACTCATCACTCGGATGTTTACCAGATATTTCTATCCACTGAT 365
241 TCAAA 245
366 TCATA 370

RESULT 10

US-09-798-743A-4
; Sequence 4, Application US/09798743A
; Patent No. US2002009093A1
; GENERAL INFORMATION:
; APPLICANT: Nezu, Jun-ichi
; APPLICANT: Ose, Asuka
; TITLE OF INVENTION: SYSTEMIC CARBONIC DEFIENCY GENE AND USES THEREOF
; FILE REFERENCE: 06501-073001
; CURRENT APPLICATION NUMBER: US/09/798,743A

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; CURRENT FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: PCT/JP99/04853
; PRIOR FILING DATE: 1999-09-07
; PRIOR APPLICATION NUMBER: JP 10-252683
; PRIOR FILING DATE: 1998-09-07
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 1888
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (60)..(1730)
US-09-798-743A-4

Query Match          7.8%; Score 62.6; DB 10; Length 1888;
Best Local Similarity 56.6%; Pred. No. 5.7e-09;
Matches 116; Conservative 0; Mismatches 89; Indels 0; Gaps 0;

QY 340 GAACCCCTGTGGTGGCTGGGTATATGATCAAGCTACTTCCCTTCGACCATGTGACT 399
Db 390 GAGAGCTGCTGGTGGCTGGGAGTACGACAGGAGCTCTTCTGTCCACCATGTCGACA 449
QY 400 AAGTGGGACCTGGTATGTGATTATCAGTCACTGAAATCAGTGGTTCAATTCCTACTTCTG 459
Db 450 GAGTGGGACCTGGTGTGTAAGATGACTGGAAGCCCCACTCACCACCTCTGTGTTTC 509
QY 460 ACTGNAATCTGTGGGAGGACATCAATAGGTGGCCATGTCTCAGACAGGTGGCTGGTGGAA 519
Db 510 GTGGGTGTCTGTATGGCTCCCTTCAITTCAGGACAGCTCTCAGACAGGTTTGGTCGCAAG 569
QY 520 TCTGCTCGTGGTGGTGAATAATCACCA 544
Db 570 AAATGCTGCTTTTGGACCATGGGCA 594

RESULT 11
US-09-798-743A-2
; Sequence 2, Application US/09798743A
; Patent No. US20020099093A1
; GENERAL INFORMATION:
; APPLICANT: Nezu, Jun-ichi
; TITLE OF INVENTION: SYSTEMIC CARNITINE DEFICIENCY GENE AND USES THEREOF
; FILE REFERENCE: 06501-073001
; CURRENT APPLICATION NUMBER: US/09/798,743A
; CURRENT FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: PCT/JP99/04853
; PRIOR FILING DATE: 1999-09-07
; PRIOR APPLICATION NUMBER: JP 10-252683
; PRIOR FILING DATE: 1998-09-07
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 1831
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (124)..(1794)
US-09-798-743A-2

Query Match          7.4%; Score 59.4; DB 10; Length 1831;
Best Local Similarity 55.6%; Pred. No. 5.3e-08;
Matches 114; Conservative 0; Mismatches 91; Indels 0; Gaps 0;

QY 340 GAACCCCTGTGGTGGCTGGGTATATGATCAAGCTACTTCCCTTCGACCATGTGACT 399
Db 454 GAGAGCTGTCTGGTGGCTGGGAGTTCAGTCAGGAGGTCTACCTGTCCACCATGTGACC 513
QY 400 AAGTGGGACCTGGTATGTGATTATCAGTCACTGAAATCAGTGGTTCAATTCCTACTTCTG 459
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Db 514 GAGTGAACCTGGTGTGTGAGGACGACTGGAAGGCCCTCACTCACAATCTCCTTGTCTTC 573
QY 460 ACTGGAATGCTGGTGGGAGGACATCATAGTGGCCCATGTCTCAGACAGGTGGCTGGTGGAA 519
Db 574 GTGGGTGTGCTGTGGGCTCCTTCATTTTCAGGCGAGCTGTACACAGGTTTGGCCCGAAG 633
QY 520 TCTGCTCGTGGTGGTGAATAATCACCA 544
Db 634 AATGTGCTGTTTCGTGACCATGGGCA 658

RESULT 12
US-09-764-887-47
; Sequence 47, Application US/09764887
; Patent No. US20020042096A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P113
; CURRENT APPLICATION NUMBER: US/09/764,887
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 658
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 47
; LENGTH: 454
; TYPE: DNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-09-764-887-47

Query Match          5.4%; Score 43.6; DB 10; Length 454;
Best Local Similarity 56.2%; Pred. No. 0.0016;
Matches 82; Conservative 0; Mismatches 64; Indels 0; Gaps 0;

QY 1 ATGGCCTTTGAGGAGCTCTTGAGTCAAGTTGGAGGCTTGGAGATTTTCAGATGCTTCAT 60
Db 35 ATGGCCTTTGAGGAGCTCTTGAGGAGCTTGGAGGCTTGGAGATTTTCAGATGCTTCAT 94
QY 61 CTGGTCTTTTATCTTCCCTCTCTCATGTATTAATCCCTCATATATCTGTAGAGAACTTT 120
Db 95 GTGGCACTGCTGGCCCTGCCCGAGTGTCTACACTGCACCTTCTCTCTGCCATCTTC 154
QY 121 GCTGCAGCCATTCCTGCTCATCGTTG 146
Db 155 CTGGCTGCCGTGCTGCCACCGAIG 180

RESULT 13
US-09-764-887-376
; Sequence 376, Application US/09764887
; Patent No. US20020042096A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P113
; CURRENT APPLICATION NUMBER: US/09/764,887
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 658
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 376
; LENGTH: 796
; TYPE: DNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-09-764-887-376

Query Match          5.4%; Score 43.6; DB 10; Length 796;
Best Local Similarity 56.2%; Pred. No. 0.0022;
Matches 82; Conservative 0; Mismatches 64; Indels 0; Gaps 0;

QY 1 ATGGCCTTTGAGGAGCTCTTTGAGTCAAGTTGGAGGCTTGGAGATTTTCAGATGCTTCAT 60
Db 34 ATGGGCTTTGAGGAGCTGCTGGAGAGGTTGGGCGGCTTTGGGCCCTTCCCACTCGGAAT 93
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Page 7

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; TYPE: DNA
; ORGANISM: Glycine max
; OTHER INFORMATION: Clone ID: 701100815H1
US-09-878-574-8151

Query Match      4.7%; Score 38; DB 10; Length 275;
Best Local Similarity 57.6%; Pred. No. 0.062;
Matches 68; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

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Search completed: January 6, 2003, 22:51:06
Job time : 43.0945 secs

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GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 6, 2003, 20:52:58 ; Search time 33.364 Seconds
(without alignments)
7398.577 Million cell updates/sec

Title: US-09-674-235-10
Perfect score: 804
Sequence: 1 atggccttgagagagctctt.....acacaaagtgaccaattt 804

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 441362 segs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA: *
1: /cgn2_6/prodata/2/ina/5A_COMB.seq: *
2: /cgn2_6/prodata/2/ina/5B_COMB.seq: *
3: /cgn2_6/prodata/2/ina/6A_COMB.seq: *
4: /cgn2_6/prodata/2/ina/6B_COMB.seq: *
5: /cgn2_6/prodata/2/ina/PCTUS_COMB.seq: *
6: /cgn2_6/prodata/2/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	88.8	11.0	280	US-09-172-711-48	Sequence 48, Appl
2	81.8	10.2	2123	US-09-330-245A-1	Sequence 1, Appl
3	81	10.1	1638	US-09-572-147-1	Sequence 1, Appl
4	53.2	6.6	2102	US-08-647-397-1	Sequence 14, Appl
5	46.6	5.8	7218	US-08-233-463-14	Sequence 1, Appl
6	36	4.5	7218	US-08-233-463-14	Sequence 1, Appl
7	35.2	4.3	2051	US-09-719-083A-1	Sequence 15, Appl
8	34.2	4.3	17327	US-07-906-871-15	Sequence 1, Appl
9	33.2	4.1	8743	US-09-081-320-1	Sequence 1, Appl
10	33.2	4.1	8743	US-09-574-141A-1	Sequence 1, Appl
11	33.2	4.1	8743	US-09-707-780-1	Sequence 1, Appl
12	32.4	4.0	5798	US-08-658-665-178	Sequence 39, Appl
13	32.4	4.0	5798	US-08-796-101-35	Sequence 1, Appl
14	31.6	3.9	1730	US-07-923-095-1	Sequence 1, Appl
15	31.6	3.9	1730	US-08-229-511-1	Sequence 1, Appl
16	31.6	3.9	1730	US-08-314-979-1	Sequence 1, Appl
17	31.6	3.9	1730	US-08-436-716-1	Sequence 1, Appl
18	31.4	3.9	1542	US-09-724-519-5	Sequence 5, Appl
19	31.4	3.9	1542	US-09-592-037-5	Sequence 5, Appl
20	31.4	3.9	1728	US-09-724-519-7	Sequence 7, Appl
21	31.4	3.9	1728	US-09-592-037-7	Sequence 7, Appl
22	31.4	3.9	2353	PCT-US92-06840-1	Sequence 1, Appl
23	31.4	3.9	3741	US-09-541-782-9	Sequence 9, Appl
24	31.4	3.9	3741	US-09-723-820-9	Sequence 9, Appl
25	31.4	3.9	14273	US-08-961-527-40	Sequence 40, Appl
26	31	3.9	458	US-09-141-000-4	Sequence 4, Appl
27	31	3.9	1835	US-08-361-611-3	Sequence 3, Appl

28	31	3.9	1835	US-08-565-655-3	Sequence 3, Appl
29	31	3.9	1835	US-08-946-967-3	Sequence 3, Appl
30	31	3.9	62804	US-09-800-960-3	Sequence 3, Appl
31	30.8	3.8	36519	US-08-923-137-2	Sequence 2, Appl
32	30.4	3.8	4332	US-08-991-789A-176	Sequence 176, App
33	30.4	3.8	4332	US-09-062-451-176	Sequence 176, App
34	30.4	3.8	4332	US-09-598-326-176	Sequence 8, Appl
35	30.4	3.8	3751	US-08-609-230A-8	Sequence 8, Appl
36	30.4	3.8	3820	US-08-990-140-3	Sequence 3, Appl
37	30.4	3.8	3820	US-09-546-238-3	Sequence 3, Appl
38	30.4	3.8	3829	US-08-631-097-8	Sequence 8, Appl
39	30.4	3.8	3829	US-08-810-712-6	Sequence 6, Appl
40	30.2	3.8	536	US-08-714-918-57	Sequence 57, Appl
41	30.2	3.8	536	US-09-265-315-57	Sequence 57, Appl
42	30.2	3.8	536	US-09-265-315-57	Sequence 57, Appl
43	30.2	3.8	536	US-09-266-417-57	Sequence 57, Appl
44	30.2	3.8	2468	US-08-468-036-19	Sequence 19, Appl
45	30.2	3.8	2468	US-08-376-843-19	Sequence 19, Appl

ALIGNMENTS

```
RESULT 1
US-09-172-711-48
; Sequence 48, Application US/09172711
; Patent No. 6160105
; GENERAL INFORMATION:
; APPLICANT: Cunniffham, Mary Jane
; APPLICANT: Zweiger, Gary R.
; APPLICANT: Panzer, Scott R.
; APPLICANT: Seilheimer, Jeffrey J.
; TITLE OF INVENTION: MONITORING TOXICOLOGICAL RESPONSES
; FILE REFERENCE: PA-0011 US
; CURRENT APPLICATION NUMBER: US/09/172, 711
; CURRENT FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PERL Program
; SEQ ID NO 48
; LENGTH: 280
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: -
; OTHER INFORMATION: 700607713H1
US-09-172-711-48

Query Match 11.0%; Score 88.8; DB 4; Length 280;
Best Local Similarity 74.4%; Pred. No. 2.6e-19;
Matches 125; Conservative 0; Mismatches 42; Indels 1; Gaps 1;

QY 1 ATGGCCTTTGAGAGAGCTTTGAGTCAAGTTGAGAGGCTTGGAGATTCCAGTGGCTCAT 60
DB 111 ATGGCCTTTGAGAGAGCTTTGAGTCAAGTTGAGAGGCTTGGAGATTCCAGTGGCTCAT 170
QY 61 CTTGCTTTATTTCTTCCCTCTCATGTTATATCCCTCATATCTGTAAGAACTTT 120
DB 171 ATGGTTTATTTGTTCTTCAACAGTGTATTTGTTACCTCATATATATAGAAC-TT 229
QY 121 GCTGAGCATTCTGCTGATGTTGCTGAGTTCACATGCTGAGCAAT 168
DB 230 ACTGAGCATTCCAGTCATGCTGCTGAGTTCATCTGAGCAAT 277

RESULT 2
US-09-330-245A-1
; Sequence 1, Application US/09330245A
; Patent No. 6432631
; GENERAL INFORMATION:
; APPLICANT: GILBARD SCIENCES, INC. et al.
; TITLE OF INVENTION: NOVEL GENE ENCODING ORGANIC ANION TRANSPORTER
; FILE REFERENCE: 240.1PCnew
; CURRENT APPLICATION NUMBER: US/09/330,245A
; CURRENT FILING DATE: 1999-06-10
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US-08-647-397-1

Query Match 6.6%; Score 53.2; DB 2; Length 2102;

Best Local Similarity 56.5%; Pred. No. 3.1e-07; Matches 122; Conservative 0; Mismatches 88; Indels 6; Gaps 1;

QY 293 TTCTTCACTGTAAGTGGAGTATCCACAGACCAAGTGGAGACAGACCAACCTGTGTGG 352
DB 349 TGCACTCTCCAAAGCCAGTCTTCCATGACACCCAGGGGCCACCGACCATGCTTGG 408
QY 353 ATGGCTGGATATGATCAAGCTACTTCCCTGACCAATTGACTAAGTGGAGCTGG 412
DB 409 ATGGCTGGATCT-----ACACAGACACAGACACCAATTGTGACAGAGTGGGACTTGG 462
QY 413 TATGATATATCACTGCTAAATCACTGTTCAATCTTCTTGTGACTGTGATGCTGG 472
DB 463 TATGGGCTCCAAACAACTGAAGAGATGGCACAGTCACTTCACTGGCAGGTATGCTGG 522
QY 473 TGGAGGATCATAGTGGCCATGCTCAGACAGGT 508
DB 523 TTGGAGACCTGTGTTGGAGAACTGTCAAGACAGGT 558

RESULT 5

US-08-232-463-14/C

Sequence 14, Application US/08232463

Patent No. 5670367

GENERAL INFORMATION:

APPLICANT: DORNER, F.

APPLICANT: SCHEIFLINGER, F.

APPLICANT: FALKNER, F. G.

TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS

NUMBER OF SEQUENCES: 52

CORRESPONDENCE ADDRESS:

ADDRESSEE: Foley & Lardner

STREET: 1800 Diagonal Road, Suite 500

CITY: Alexandria

STATE: VA

COUNTRY: USA

ZIP: 22313-0299

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/232,463

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/935,313

FILING DATE:

APPLICATION NUMBER: EP 91 114 300.6

FILING DATE: 26-AUG-1991

ATTORNEY/AGENT INFORMATION:

NAME: BENT, Stephen A.

REGISTRATION NUMBER: 29,768

REFERENCE/DOCKET NUMBER: 30472/114 IMMU

TELECOMMUNICATION INFORMATION:

TELEPHONE: (703)836-9300

TELEFAX: (703)683-4109

TELEFAX: 899149

INFORMATION FOR SEQ ID NO: 14:

SEQUENCE CHARACTERISTICS:

LENGTH: 7218 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

CLONE: pTZgpL-F1s

US-08-232-463-14

Query Match 5.8%; Score 46.6; DB 1; Length 7218;

Best Local Similarity 5.7%; Pred. No. 8.6e-05; Matches 22; Conservative 203; Mismatches 162; Indels 0; Gaps 0;

QY 415 TGTGATATAGTACACGGAATCAGTGTTCATTTCTTCACTTCTGACTGATGCTGTGG 474
DB 1484 TGTATATACCTATATGACAGTGTATTAAGAGATGAAGATTGTGACRRRRRRRRR 1425
QY 475 GGAAGCATCATAGTGGCCATGTCTCAGACAGTGGCTGGTAATCTGCTGGTGGTGG 534
DB 1424 RR 1365
QY 535 ATAATCAACCAATAAATAAGAGGCTTAAAGGACCTTAGAAAAGTTGACAGCAAAAT 594
DB 1364 RR 1305
QY 595 GGAATTAAGATGTGAAGAAACCTGAACATAGAGTGTGAATGACCAATGACAGAG 654
DB 1304 RR 1245
QY 655 GAGCTGATGACAGACAGACCAAACTACTGTGTGACTGTTCGCAACCCAGATAG 714
DB 1244 RR 1185
QY 715 CGTAAAGCATCTGTATCTGTATTTTGAGAAAAAAATCTCAAGAAAAGCATAA 774
DB 1184 RR 1125
QY 775 AATGATTCCTACACAAAGTGACCAA 801
DB 1124 RR 1098

RESULT 6

US-08-232-463-14

Sequence 14, Application US/08232463

Patent No. 5670367

GENERAL INFORMATION:

APPLICANT: DORNER, F.

APPLICANT: SCHEIFLINGER, F.

APPLICANT: FALKNER, F. G.

TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS

NUMBER OF SEQUENCES: 52

CORRESPONDENCE ADDRESS:

ADDRESSEE: Foley & Lardner

STREET: 1800 Diagonal Road, Suite 500

CITY: Alexandria

STATE: VA

COUNTRY: USA

ZIP: 22313-0299

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/232,463

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/935,313

FILING DATE:

APPLICATION NUMBER: EP 91 114 300.6

FILING DATE: 26-AUG-1991

ATTORNEY/AGENT INFORMATION:

NAME: BENT, Stephen A.

REGISTRATION NUMBER: 29,768

REFERENCE/DOCKET NUMBER: 30472/114 IMMU

TELECOMMUNICATION INFORMATION:

TELEPHONE: (703)836-9300

TELEFAX: (703)683-4109

TELEFAX: 899149

INFORMATION FOR SEQ ID NO: 14:

SEQUENCE CHARACTERISTICS:

LENGTH: 7218 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

CLONE: pTZgpL-F1s

US-08-232-463-14

LENGTH: 7218 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
CLONE: pTZgpt-Fls
US-08-232-463-14

Query Match 4.5%; Score 36; DB 1; Length 7218;
Best Local Similarity 6.4%; Pred. No. 0.24;

Matches 18; Conservative 147; Mismatches 117; Indels 0; Gaps 0;

QY 21 GAGTCAAGTTGGAGCGCTTGGAGATTTCAGATGCTTCATCTGGTTTATCTTCCTC 80
DB 1035 GAGCTTGGCTGAGGCTGAGGAGCTTGGATTTTTTTTTTTTTTTTTTTTTTTT 1094

QY 81 TCTCATGTTTAAATCCCTCATATCTACTGCTAGAGAACTTTCTGCAGCACTCTGGTCA 140

DB 1095 YY 1154

QY 141 TCCTTGTGCTGCTCCACATGCTGGACAATAATAGTGGATCTGGTAATGAACCTGGAATCCT 200

DB 1155 YY 1214

QY 201 CAGTGAAGATGCCCTCTTGAGAACTCTATCCCACTAGACTCAAACTCTGAGGCCAGAGAA 260

DB 1215 YY 1274

QY 261 GTGCTGCTGCTTGTGTCATCCGAGTGGCAGCTTCTTCACT 302

DB 1275 YY 1316

RESULT 7

US-09-719-083A-1/c

; Sequence 1, Application US/09719083A

; Patent No. 6451568

; GENERAL INFORMATION:

; APPLICANT: McMaster, Christopher R

; APPLICANT: Anette, Henneberry L

; TITLE OF INVENTION: Cloning of a Human

; TITLE OF INVENTION: Choline/ethanolaminephosphotransferase: Synthesis of

; TITLE OF INVENTION: Phosphatidylcholine, Phosphatidylethanolamine, and

; TITLE OF INVENTION: Platelet Activating Factor

; FILE REFERENCE: 84372-203

; CURRENT APPLICATION NUMBER: US/09/719,083A

; CURRENT FILING DATE: 2000-02-08

; PRIOR APPLICATION NUMBER: US60/088,379

; PRIOR FILING DATE: 1999-06-08

; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 1

; LENGTH: 2051

; TYPE: DNA

; ORGANISM: human Jurkat T cell cDNA library

; FEATURE:

; NAME/KEY: transit_peptide

; LOCATION: (129)..(1379)

; OTHER INFORMATION: Open reading frame encoding hCEP1 peptide

US-09-719-083A-1

Query Match 4.4%; Score 35.2; DB 4; Length 2051;

Best Local Similarity 53.7%; Pred. No. 0.22;

Matches 73; Conservative 0; Mismatches 63; Indels 0; Gaps 0;

QY 91 TTAATCCCTCATATAGCTGAGAACTTGTGAGCACTTCCTGAGCCATTCCTGCTATCTGCTGG 150

DB 1912 TTCTCAACAATGTAAGATAGGAACCTTTTCAATCCAATCAAGGTCTTTATTACTAG 1853

QY 151 GTCCACATGCTGGACAATAATAGTGGATCTGGTAATGAACCTGGAATCTCAGTGAAGAT 210

DB 1852 TTCCACCTCACAAGCTAGTGGGATGTATCTGTGTCACAGCTGAATTCCTCAGTAAGAA 1793

QY 211 GCCTCTTGGAGAACT 226
DB 1792 AGCTTGAAGACACT 1777

RESULT 8

US-07-906-871-15/c

; Sequence 15, Application US/07906871

; Patent No. 5340739

; GENERAL INFORMATION:

; APPLICANT: Stevens, Richard L.

; APPLICANT: Avraham, Shalom

; TITLE OF INVENTION: HEMATOPOIETIC CELL SPECIFIC

; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATORY ELEMENTS OF SERGLYCIN AND USES

; TITLE OF INVENTION: THEREOF

; NUMBER OF SEQUENCES: 18

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Sterne, Kessler, Goldstein & Fox

; STREET: 1225 Connecticut Avenue, N.W., Suite 300

; CITY: Washington

; STATE: DC

; COUNTRY: USA

; ZIP: 20036

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/07/906,871

; FILING DATE: 19920103

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/07/816,289

; FILING DATE: 03 JAN 1992

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/07/635,544

; FILING DATE: 18-JAN-1991

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/US99/03051

; FILING DATE: 13-JUL-1989

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/07/224,035

; FILING DATE: 13-JUL-1988

; ATTORNEY/AGENT INFORMATION:

; NAME: Cimbala, Michele A

; REGISTRATION NUMBER: 33,851

; REFERENCE/DOCKET NUMBER: 0627.2830004

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (202)833-7533

; TELEFAX: (202)833-8716

; INFORMATION FOR SEQ ID NO: 15:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 17327 base pairs

; TYPE: NUCLEIC ACID

; STRANDEDNESS: both

; TOPOLOGY: linear

; MOLECULE TYPE: DNA

; FEATURE:

; NAME/KEY: exon

; LOCATION: 621..753

; FEATURE:

; NAME/KEY: intron

; LOCATION: 754..9596

; FEATURE:

; NAME/KEY: exon

; LOCATION: 9597..9744

; FEATURE:

; NAME/KEY: intron

; LOCATION: 9745..16396

; FEATURE:

; NAME/KEY: exon

; LOCATION: 16397..17327

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 1

LENGTH: 8743

TYPE: DNA

ORGANISM: Rupestris stem pitting associated virus

US-09-707-780-1

Query Match 4.1%; Score 33.2; DB 4; Length 8743;

Best Local Similarity 50.0%; Pred. No. 2.2; Mismatches 83; Indels 0; Gaps 0;

559 GGCTTAAGGCACTTAGAAAAAGTTGACGCAAAATGGAATAAAGAAATGCTGAAGAAACC 618

7764 GGCTGAATGGAAGTCAAAATGGGAAACTCCCGGTGAATCAATGAGGCTTTGAAGCC 7823

619 CTGACATAGAGTTGTAAGATCCACATGACAGGAGGAGCTGGATGCAGACAGACCAAA 678

7824 CGGCTAAATCGCTGGAGTTAGCTAGAGCTCAAAAGCAGCCGGAAGTTCTTAATGCACA 7883

679 ACTACTGTGTGACTTGTTCGCAACCCCAAGTATCGTAAAGGA 724

7884 CTTACTCTCAGTGCATCTTTCGCAACGCAAGAGGATTATAGAGA 7929

RESULT 12

US-08-658-665-178

Sequence 178, Application US/08658665

Patent No. 5997878

GENERAL INFORMATION:

APPLICANT: Paoletti, Enzo

APPLICANT: Pincus, Steven E.

APPLICANT: Cox, William I.

APPLICANT: Kauffman, Elizabeth K.

TITLE OF INVENTION: Recombinant Poxvirus - Cytomegalovirus,

TITLE OF INVENTION: Compositions and Uses

NUMBER OF SEQUENCES: 190

CORRESPONDENCE ADDRESS:

ADDRESSEE: Curtis, Morris & Safford, P.C.

STREET: 530 Fifth Avenue

CITY: New York

STATE: New York

COUNTRY: United States of America

ZIP: 10036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/658,665

FILING DATE: 05-JUN-1996

CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: Frommer Esq., William S.

REGISTRATION NUMBER: 25,506

REFERENCE/DOCKET NUMBER: 454310-2720.1

TELEPHONE: (212)840-3333

TELEFAX: (212)840-0712

INFORMATION FOR SEQ ID NO: 178:

SEQUENCE CHARACTERISTICS:

LENGTH: 5798 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

US-08-658-665-178

Query Match

Best Local Similarity 4.0%; Score 32.4; DB 2; Length 5798;

Mismatches 122; Conservative 0; Mismatches 131; Indels 1; Gaps 1;

548 AACTAGATGAGGCTTAAAGGCCTTAGAAAAGTTGCACGACCAATGAATAAAGATG 607

QY 1904 AATTGGTAGACAGAAAAATATTATCTAAACAGATACGCTTAAACAGAAATAGAGATTA 1963

Db 1904 AATTGGTAGACAGAAAAATATTATCTAAACAGATACGCTTAAACAGAAATAGAGATTA 1963

QY 608 CTGAAGAAACCCCTGAACATAGAGGTTGTAAGATCCACCATGCAGGAGAGCTGGATGCAG 667

Db 1964 AGAAGATTAGTAAACGAATTAATGAAATACCAATGTTTCGAAGATATAATGACTA 2023

QY 668 CACAGACCAAACTACTGTGTGACTTGTTCGCAACCCCAAGTATCGTAAAGAGGATCT 727

Db 2024 TACCTACCATGATCCCTATGAGATA-TTTTITTAACCGGTACTTAAGAGAAAAAGTATCT 2082

QY 728 GTATCTCTGTATTTTTCAGAAAAAAATCTCAAGGAAAAAGGCATPAAAAATGATTCTACA 787

Db 2083 AAAGCTGTAGATTTTTCAGAAATGGATATTAAGGGAGATGATATTAGCAAAATCGGAATA 2142

QY 788 CAAAAGTGACCAA 801

Db 2143 AACACGGGAGAAA 2156

RESULT 13

US-08-796-101-39

Sequence 39, Application US/08796101

Patent No. 6183752

GENERAL INFORMATION:

APPLICANT: EPSTEIN, STEPHEN E.

APPLICANT: FINKEL, TOREN

APPLICANT: SPEIR, EDITH

APPLICANT: ZHOU, YI FU

APPLICANT: ZHU, JIANHUI

APPLICANT: ERDILE, LORNE

APPLICANT: PINCUS, STEVEN

TITLE OF INVENTION: RESTENOSIS/ATHEROSCLEROSIS DIAGNOSIS,

TITLE OF INVENTION: PROPHYLAXIS AND THERAPY

NUMBER OF SEQUENCES: 184

CORRESPONDENCE ADDRESS:

ADDRESSEE: CURTIS, MORRIS & SAFFORD, P.C.

STREET: 530 FIFTH AVENUE

CITY: NEW YORK

STATE: NY

COUNTRY: USA

ZIP: 10036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/796,101

FILING DATE: 05-FEB-1997

CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: KOWALSKI, THOMAS J.

REGISTRATION NUMBER: 32,147

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 840-3333

TELEFAX: (212) 764-5574

INFORMATION FOR SEQ ID NO: 39:

SEQUENCE CHARACTERISTICS:

LENGTH: 5798 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

US-08-796-101-39

Query Match

Best Local Similarity 4.0%; Score 32.4; DB 4; Length 5798;

Mismatches 122; Conservative 0; Mismatches 131; Indels 1; Gaps 1;

548 AACTAGATGAGGCTTAAAGGCCTTAGAAAAGTTGCACGACCAATGAATAAAGATG 607

QY 1904 AATTGGTAGACAGAAAAATATTATCTAAACAGATACGCTTAAACAGAAATAGAGATTA 1963

QY 608 CTGAAGAAACCTGAAACATAGAGGTTGTAAGATCCACCATGCAGAGAGAGCTGAGTACAG 667
Db 1964 AAGAGATTAGTAAGCAATTAATGAAATACCAATAGTTTCGAAGATATATGACTA 2023
QY 668 CACAGACCAAACTCTGTGTGATGATTTGTCCGCAACCCCAATAGCCGTAAGAAAGATCT 727
Db 2024 TACCTACCAAGTATCCCTATAGATA-TTTTTTTAAACCGGTACTAAGAGAAAAGTATCT 2082
QY 728 GTATCCGTGATTTTGAAGAAAAAATCTCAAGAAAGGCATTAATAATGATTGTACA 787
Db 2083 AAAGCTGATGATTTTCCGAATGATTAATTAAGGAGATGATATTACGAAATGGGATA 2142
QY 788 CAAAGTGACCAA 801
Db 2143 AAACAGGAGAAAA 2156
RESULT 14
US-07-923-095-1
; Sequence 1, Application US/07923095
; Patent No. 5401652
; GENERAL INFORMATION:
; APPLICANT: Sokol Dr., Patricia T.
; APPLICANT: Ziai Dr., Mohammad R.
; TITLE OF INVENTION: Nucleic Acid Sequence Encoding an Apamin
; TITLE OF INVENTION: Receptor
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: American Cyanamid Company
; STREET: 1937 West Main Street
; CITY: Stamford
; STATE: CT
; COUNTRY: U.S.A.
; ZIP: 06904-0060
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/923,095
; FILING DATE: 19920730
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lowney Dr., Karen A.
; REGISTRATION NUMBER: 31274
; REFERENCE/DOCKET NUMBER: 31619-00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 203-321-2361
; TELEFAX: 203-321-2971
; TELEX: 710-474-4059
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1730 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: linear
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Pig
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 140..1456
; US-07-923-095-1
Query Match 3.9%; Score 31.6; DB 1; Length 1730;
Best Local Similarity 52.2%; Pred. No. 3;
Matches 70; Conservative 0; Mismatches 64; Indels 0; Gaps 0;
QY 343 CCTGTGTGATGCTGGGTATATGATCAAGCTACTCTTCGACCAATTGTGACTAAG 402
Db 1589 TGGAGATGCAAGATGATACCAAGGGGTGTGGAATTAATTTCTAAGTTTTCACCT 1648

Db 1529 CCTTTATGAGGCTTTGTTGTTTAAAGCCAGCAATGACAGCTTACTCAG 1588
QY 403 TGGAGCCGTGATGATGATTATCAATCACTGAATCAGTGGTCAATTCCTACTGACT 462
Db 1589 TGGAGATGCAAGATGATACCAAGGGGTGTGGAATTAATTTCTAAGTTTTCACCT 1648
QY 463 GGAATGCTGTGGG 476
Db 1649 TGAATGCTGAGTGG 1662
RESULT 15
US-08-229-511-1
; Sequence 1, Application US/08229511
; Patent No. 5591824
; GENERAL INFORMATION:
; APPLICANT: Ziai, Mohammad Reza
; APPLICANT: Sokol, Patricia Tyson
; APPLICANT: Chandra, Manik
; TITLE OF INVENTION: Apamin Binding Protein/Receptor
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: 2 Militia Drive
; CITY: Lexington
; STATE: Ma
; COUNTRY: US
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/229,511
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/922,307
; FILING DATE: 30-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/923,095
; FILING DATE: 30-JUL-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Carroll, Alice O.
; REGISTRATION NUMBER: 33,542
; REFERENCE/DOCKET NUMBER: ACC92-08A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-861-6240
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1730 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 140..1456
; US-08-229-511-1
Query Match 3.9%; Score 31.6; DB 1; Length 1730;
Best Local Similarity 52.2%; Pred. No. 3;
Matches 70; Conservative 0; Mismatches 64; Indels 0; Gaps 0;
QY 343 CCTGTGTGATGCTGGGTATATGATCAAGCTACTCTTCGACCAATTGTGACTAAG 402
Db 1529 CCTTTATGAGGCTTTGTTGTTTAAAGCCAGCAATGACAGCTTACTCAG 1588
QY 403 TGGAGCCGTGATGATGATTATCAATCACTGAATCAGTGGTCAATTCCTACTGACT 462
Db 1589 TGGAGATGCAAGATGATACCAAGGGGTGTGGAATTAATTTCTAAGTTTTCACCT 1648

Qy 463 GGAATGCTGGTGG 476
| | | | | | | | | |
Db 1649 TGAATGCTGAGTGG 1662

Search completed: January 6, 2003, 22:45:13
Job time : 60.3264 secs